
SECTION IV

SUMMARY AND CONCLUSIONS

A. SUMMARY OF RESULTS

In this study, Pechan has developed emission growth surrogate data that improves upon the surrogate data currently employed by ARB. In addition to providing a more current set of data, the following highlights some of the improvements provided by this study:

- Growth surrogates that are applied by SIC code are now generally defined based on 3-digit SIC codes, rather than 2-digit SIC codes. The new data, therefore, provide a more detailed match to the SIC code information in ARB's emission inventory;
- A large number of growth parameters have now been defined by a combination of SCC and SIC codes. These growth parameters, which are assigned to fuel combustion sectors in ARB's point source inventory, reflect projected changes in energy intensity based on DOE fuel price and energy efficiency improvement forecasts;
- Incorporation of actual emissions activity data into the historical growth surrogate data set for several source categories, including use of beef cattle feedlot throughput for the cattle feedlot dust source category;
- Detailed review and analysis of potential growth surrogates for the largest emitting and other key source categories, including use of regression analysis to statistically identify the relationship between historical emissions activity data and growth surrogate data.

To summarize the scope of this effort, Table IV-1 displays the number of growth parameters available under each of the four alternative growth scenarios. Growth parameter counts are identified by the general approach used in developing growth surrogate data. As indicated by this table, there are 44 growth parameters that are not included in the high, low, and cyclic growth scenarios. These parameters are presented in Table IV-2. Pechan generally developed the growth surrogate data for these parameters using the regression-based approach summarized in Section III.C.3. This table also briefly describes the source of the data provided by identifying the "PARAMETER COMMENT" field value as reported in the PAD file. Section III.C.4 provides a more detailed discussion of how these data were compiled.

Figures IV-1 through IV-12 display the state-level trends in the growth surrogate data assigned to the twenty highest emitting point and non-mobile area source categories identified from ARB's 1996 emissions inventory. These twenty source categories accounted for approximately two-thirds of the point and non-mobile area source emissions in 1996. For

consistency, all growth surrogate data are presented in index form with 1996 values set equal to 1.0.

Figure IV-1 displays the 1970-2030 state-level trend in the growth surrogate data for the Residential Wood Combustion, Fireplaces source category. This figure indicates steady, but slow growth in this category over the bulk of the forecast period with the exception of the 1988-1995 period. Over this period, a combination of slowing population growth and data indicating a decline in the percentage of houses with fireplaces without inserts created an overall reduction in the growth surrogate data for this category. Because it was not clear that this trend will continue, especially given recent fuel price and electricity market concerns, Pechan forecasts an increase in state-level activity for this category based on Pechan's projected growth in occupied housing units.

Figure IV-2 presents the Pechan state-level forecast trend for acre passes, which is used as the growth surrogate data for the Agricultural Land Preparation source category. The available historical data indicated a decline in this activity, and Pechan is projecting that this trend will continue over the forecast period as urbanization continues and farms increase use of low and no-till practices

Figure IV-3 identifies the state-level trend in number of unpaved city and county road miles over the study period. This trend is used as the growth surrogate for the Unpaved Road Travel Dust-City and County Roads source category. The available historical data for this category indicated a decline in unpaved city and county road miles, and Pechan's analysis indicated a strong inverse correlation between these data and LDT/MDT VMT data. Employing the regression equation identified in Section III to project beyond the years of available unpaved road mileage data, resulted in near zero state-level unpaved road mileage values in the later years of the forecast period. Because it is not clear that this represents a reasonable outcome, Pechan has chosen to employ a conservative no growth assumption for this category for the period beyond the available historical data. For consistency, this assumption was also employed for the period before the available historical data.

Figure IV-4 presents the long-term trend in state-level unpaved road mileage for BLM and BIA roads, which is used for the Unpaved Road Dust category that covers these roads. The historical period with available unpaved road mileage data indicated an increase in the emissions activity for this category. Pechan's analysis forecasts this trend to continue as additional people take advantage of recreational activities on these lands. This trend is commensurate to the trend in increased sport-utility vehicle registrations that facilitates these opportunities.

Figure IV-5 displays Pechan's state-level forecast trend for non-pasture harvested acreage data, which is used as the growth surrogate data for the Unpaved Road Travel Dust-Farm Roads source category. This source category has experienced a decline in activity over the historical period similar to, but slower than, the decline in acre passes shown in Figure IV-2. Pechan projects a modest decline in activity for this category based on the outcome of a regression analysis indicating a correlation between the level of non-pasture harvested acreage and data for both population and employment in the Farm and Garden Machinery sector.

Figure IV-6 presents the state-level trend in total non-pasture harvested acreage data, excluding orchards and vineyards, over the study period. This trend is used as the growth surrogate for the Fugitive Windblown Dust from Agricultural Lands source category. The available historical data indicated a reduction in this activity. Pechan's regression analysis projects this trend to continue over the forecast period as increased urbanization reduces the amount of state-level harvested acreage.

Figure IV-7 identifies the 1970-2030 state-level trend in the growth surrogate data for the Fugitive Windblown Dust from Unpaved Roads and Associated Areas source category. These data are based on the total acreage of unpaved roads. The historical trend indicated a reduction in unpaved road acreage, and Pechan's regression analysis projected this trend to continue, with zero unpaved road acreage occurring in the forecast period. As with the unpaved city and county roads category, Pechan has chosen to employ a conservative no growth assumption for this category because it is not clear that zero unpaved roads acreage represents a reasonable scenario.

Figure IV-8 presents the Pechan state-level forecast trend for landfill tonnage, which is used as the growth surrogate data for the Class II and III Municipal Solid Waste Landfills source category. The available historical data indicated an initial decline in landfill tonnage, followed by an increase. Pechan's regression analysis indicated a strong relationship between tonnage and both population and total gross regional product. Based on this analysis, Pechan projects a positive trend in emissions activity for this category over the forecast period.

Figure IV-9 displays the long-term trend in state-level harvested acreage data for field crops that are associated with burning activity. These data are used as the growth surrogate for the Agricultural Burning-Field Crops source category. Based on the available harvested acreage data for these crops, the historical data indicate a decline in emissions activity for this category. Based on Pechan's regression analysis, harvested acreage data are estimated to decline to near zero in the latter years of the forecast period. Because of the uncertainty of this assumption, Pechan has chosen to implement a conservative no growth assumption for this category. This assumption is applied to all years for which historical harvested acreage data were not available.

Figure IV-10 identifies Pechan's state-level forecast trend for residential renewable energy use, which is the growth surrogate data used for the Residential Wood Combustion, Wood Stoves source category. In lieu of historical time-series data specific to wood stove use, Pechan has chosen to assign a composite growth factor for this category that is based on the combination of Pechan's projected trend in occupied housing units, adjusted by the AEO national forecast of the amount of renewable energy (mostly comprised of wood) that is projected to be used per household. Pechan's forecast represents a very modest increase in emissions activity for this source category over the forecast period.

Figure IV-11 presents the trend in state-level on-road VMT, which is used as the growth surrogate data for the Paved Entrained Road Dust-Local Streets and Major Streets source category. The 1970-2020 on-road VMT data were supplied by ARB; Pechan extrapolated the VMT trend to 2030 based on the 1970-2020 data. As indicated by Figure IV-11 this source category has undergone steady growth over the historical period, and is projected to continue to do so in the forecast period.

Figure IV-12 displays the state-level trend in Construction sector employment over the study period. This trend is used as the growth surrogate for the Road Construction Dust source category because of the unavailability of historical time-series data on the number of miles of road built. The historical trend indicates an overall trend toward increased employment. However, there are periods where Construction employment has declined, reflecting recessionary periods in the State's economy. The REMI "best estimate" forecast is for modest increases in Construction employment.

Figure IV-13 presents a comparison of the Construction employment surrogate data under all four alternative forecast scenarios. As indicated by the figure, employment in this sector is projected to grow approximately 25 percent between 1996 and 2030 under the best estimate forecast scenario. The low growth scenario projects approximately 5 percent lower growth over the period, while growth is projected to be nearly 10 percent greater under the high growth scenario. The cyclic forecast scenario indicates projected expansions and contractions in Construction sector employment in the forecast period. A description of the assumptions used in developing these alternative forecast scenarios is provided in Section III.A.2.

B. STUDY LIMITATIONS AND RECOMMENDATIONS

Developing consistent long-term historical and forecast emissions activity data is a resource-intensive process often hampered by data limitations. In many cases, long-term historical data are not available below the state level, and for some source categories, no state-level emissions activity data were identified. ARB acknowledges these limitations in developing base year emission estimates for many area source categories. For example, estimates of automotive refinishing emissions are based on National production data and the following assumptions:

- Production is equivalent to consumption;
- California's consumption of National automotive refinishing paints is proportional to the proportion of California vehicle registrations to National vehicle registrations; and
- County-level consumption is proportional to the proportion of each county's population to State population.

The limitations associated with these emission estimation methodologies affect the ability to develop California-specific data for use in identifying growth surrogate data for this effort.

In addition, Pechan notes that long-term historical emissions activity data were not available for most of the source categories identified by ARB for detailed analysis. As noted in Pechan's proposal for this study, Pechan was relying on the availability of valid long-term historical emissions activity data from the ARB. Further discussion with ARB identified that these data were not available. In many cases, it was therefore necessary to limit the regression analyses to a relatively short time-frame. This complicates efforts to develop accurate long-term forecasts given the perturbations that can occur over short time-frames. (This explains the necessity for Pechan to judgmentally adjust the regression-based forecasting data for several source categories.) Pechan also notes that it would have been possible to identify and compile historical

emissions activity data for additional source categories if additional project resources were available. For example, Pechan was unable to obtain prescribed burning acreage data for the numerous non-CDFFP jurisdictions for the forest management source category (CES 47274). Additional resources also would have permitted Pechan to develop alternative growth scenario projections data for the forecasts that are based on regression analyses. Even with these limitations, however, Pechan believes that the results of the detailed analyses conducted under Task 2 and 3 of this contract significantly improve upon the growth surrogates that ARB currently employs.

Given the dynamic nature of the California economy, Pechan recommends that ARB conduct regular updates to its growth surrogate data. Forecasts can become outdated as the economy responds to governmental policies, technological advances, and other unforeseen circumstances (e.g., the recent effects of the combination of electricity market deregulation and higher fuel prices). To ensure that forecasts are based on the most up-to-date economic conditions, it is necessary for ARB to periodically review and update its growth surrogate forecasts. This will help to ensure that ARB policies reflect the best available information. Pechan also presents the following emission inventory improvement recommendations for ARB consideration:

- Given the numerous invalid/outdates SIC codes identified in ARB's point source emissions inventory, ARB/Air Districts should review and update the SIC code assignments in the inventory to ensure that they are correctly identified;
- ARB should update the 1996 emissions inventory for source categories for which Pechan has identified available emissions activity data for 1996. In reviewing the emissions activity data for certain source categories, Pechan discovered a number of instances where 1996 inventory data were based on 1987 emissions activity data grown to 1996 based on an economic surrogate. In comparing the 1996 emissions activity data reviewed for this study with the 1996 emissions inventory, Pechan identified a number of instances where counties with 1987 emissions have not had emissions activity for several years. Pechan also identified similar instances where counties with 1996 emissions activity data do not show emissions in ARB's 1996 inventory.

Pechan recognizes that budget constraints may limit ARB's ability to implement these recommendations.

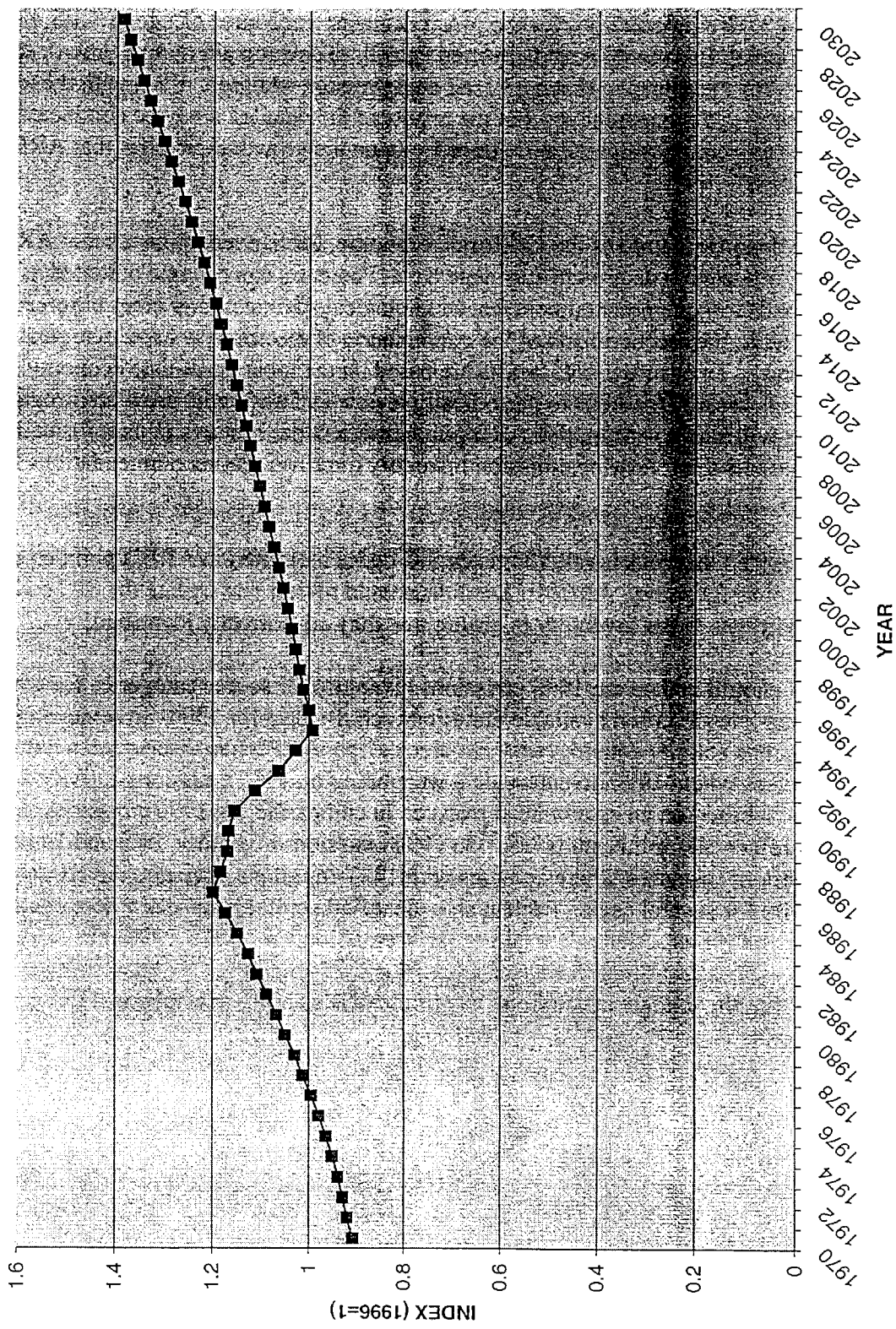


Figure IV-1. Residential Wood Combustion, Fireplaces

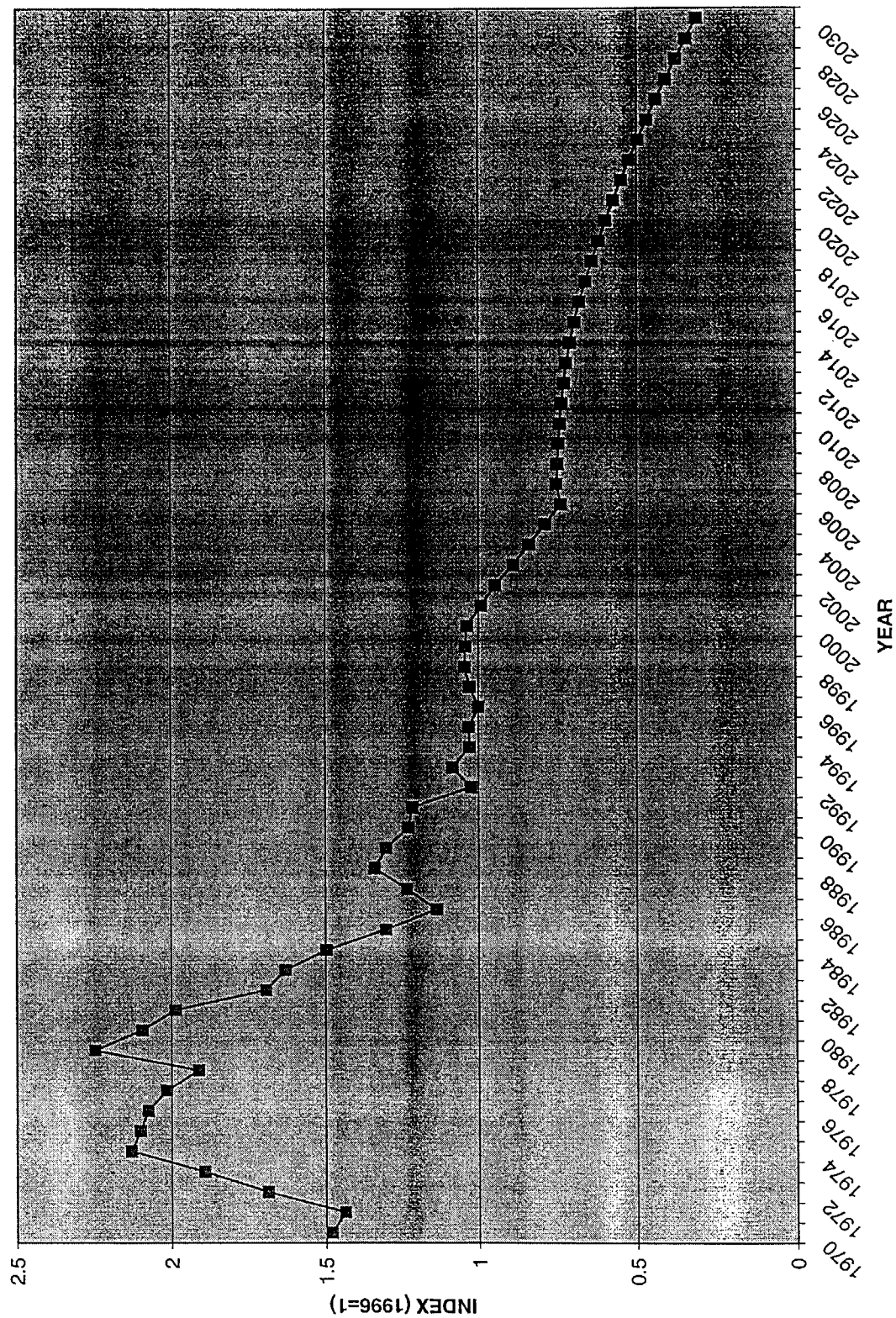


Figure IV-2. Agricultural Land Preparation

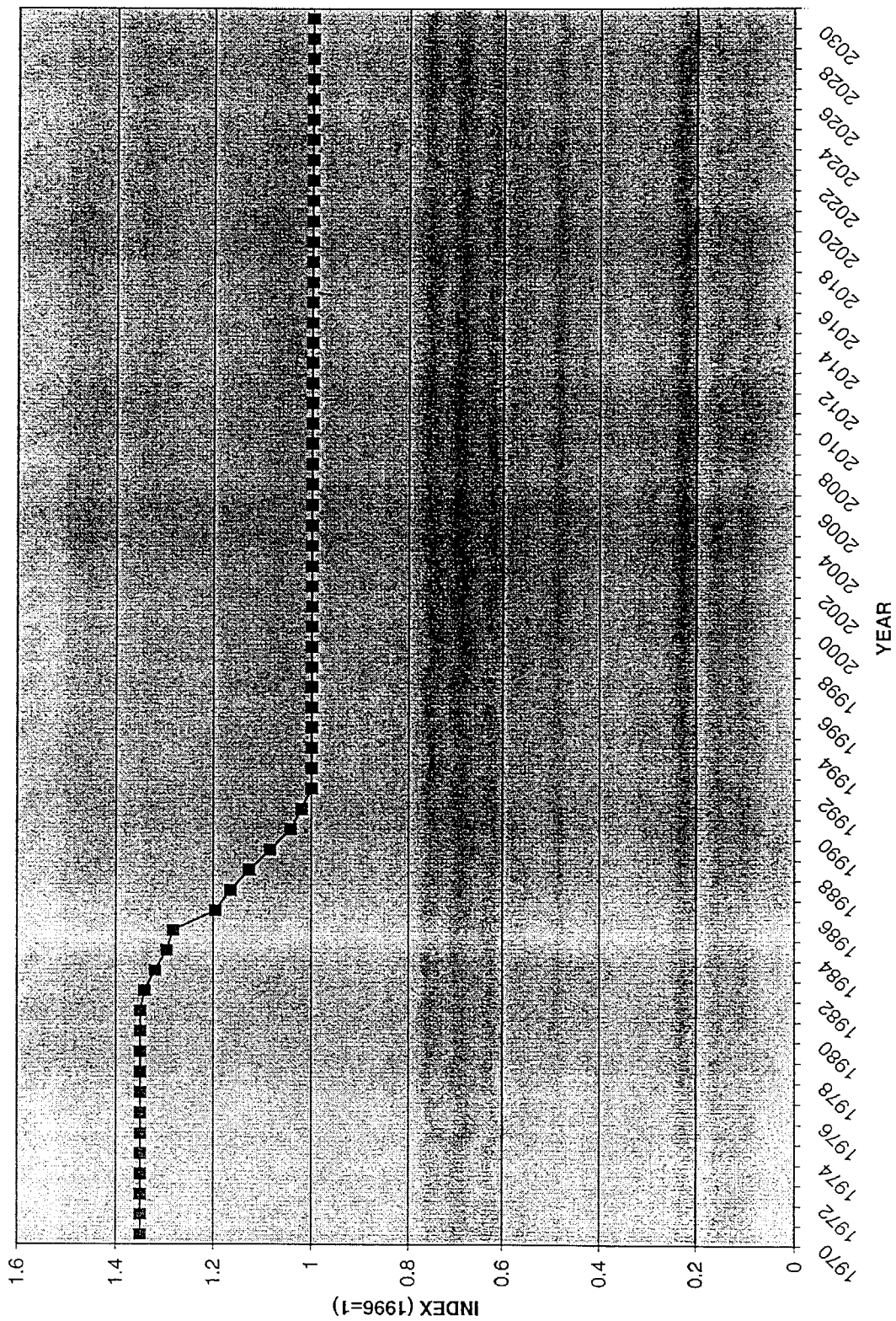


Figure IV-3. Unpaved Road Travel Dust - City and County Roads

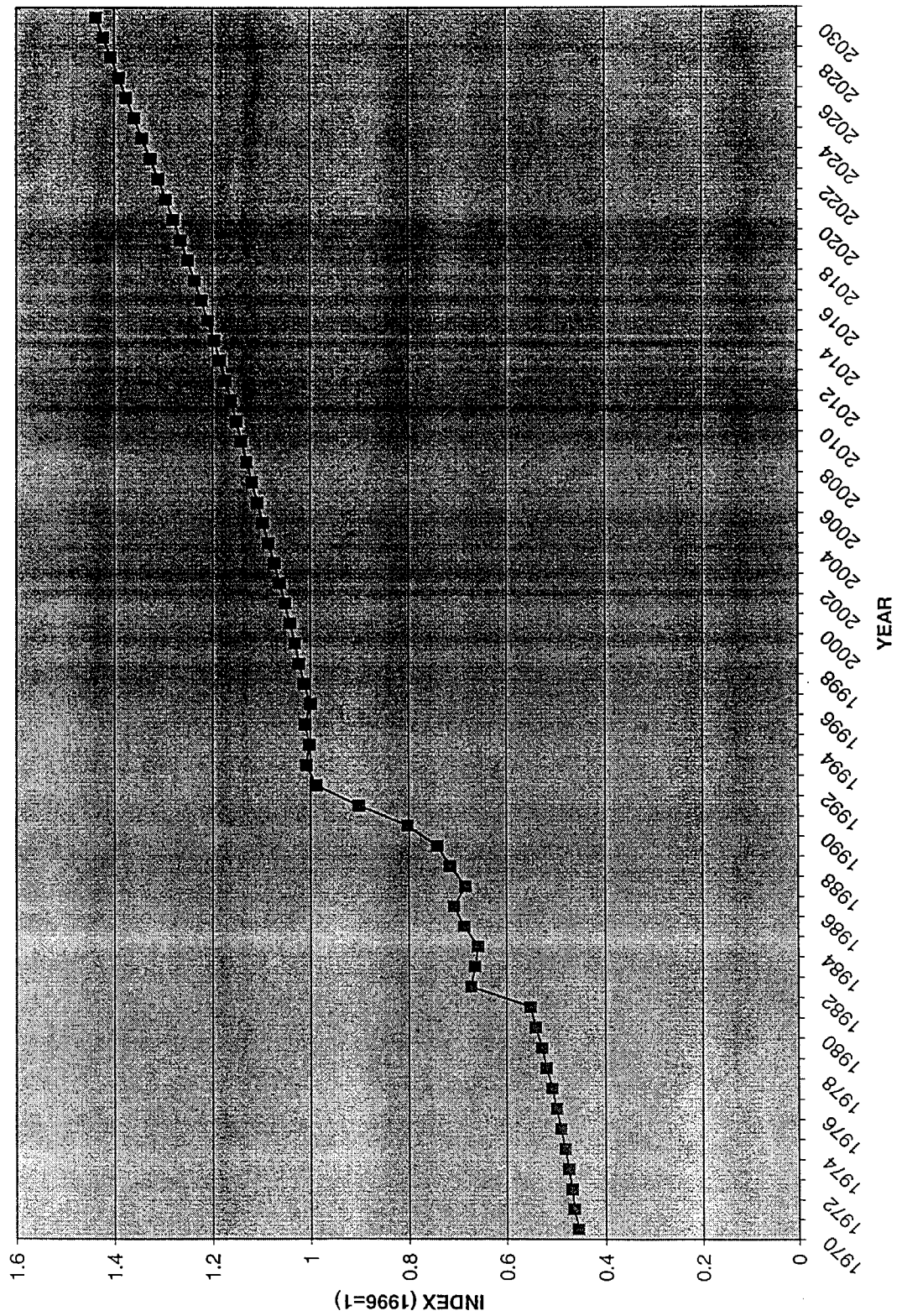


Figure IV-4. Unpaved Road Travel Dust - Bureau of Land Management and Bureau of Indian Affairs Roads

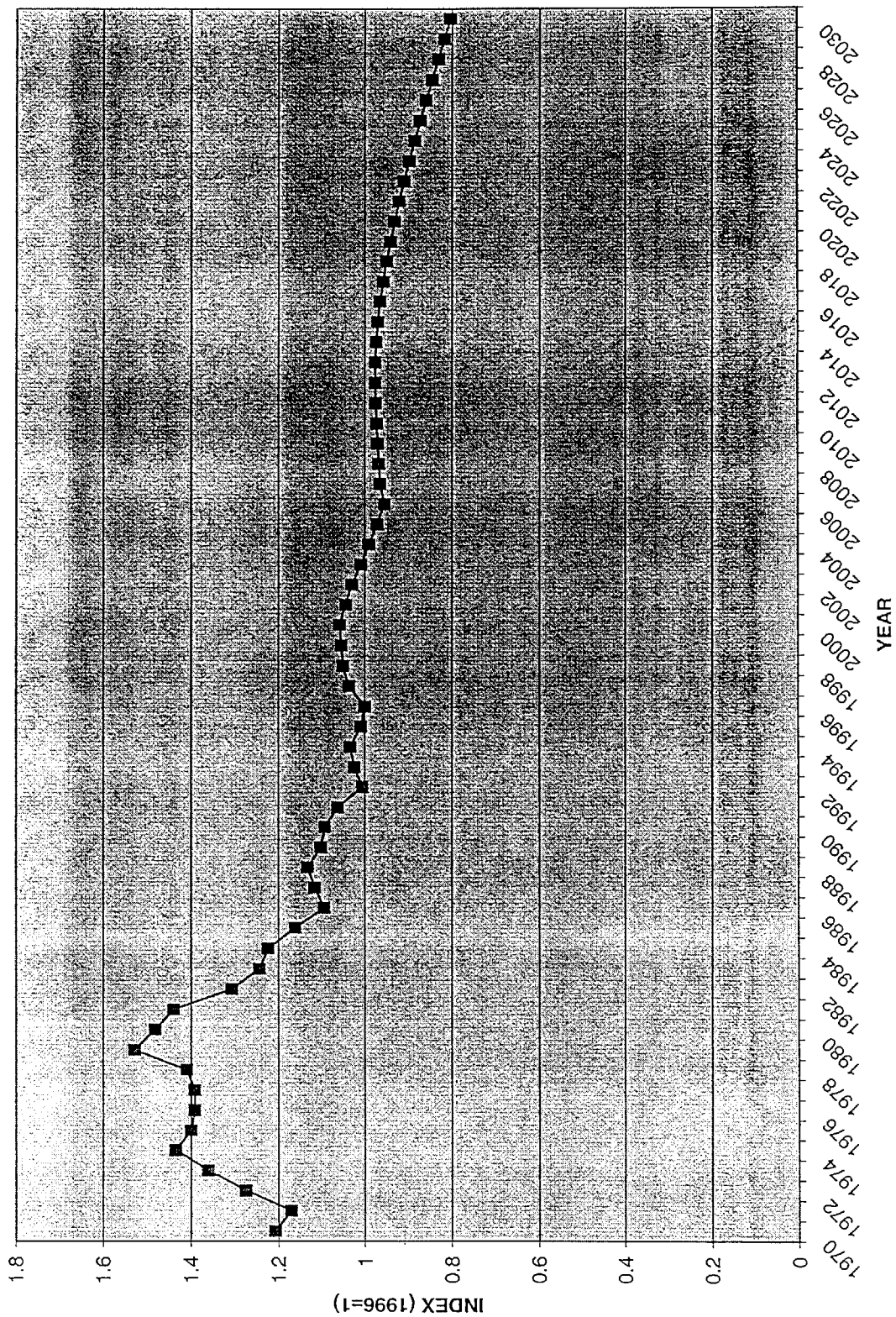


Figure IV-5. Unpaved Road Travel Dust - Farm Roads

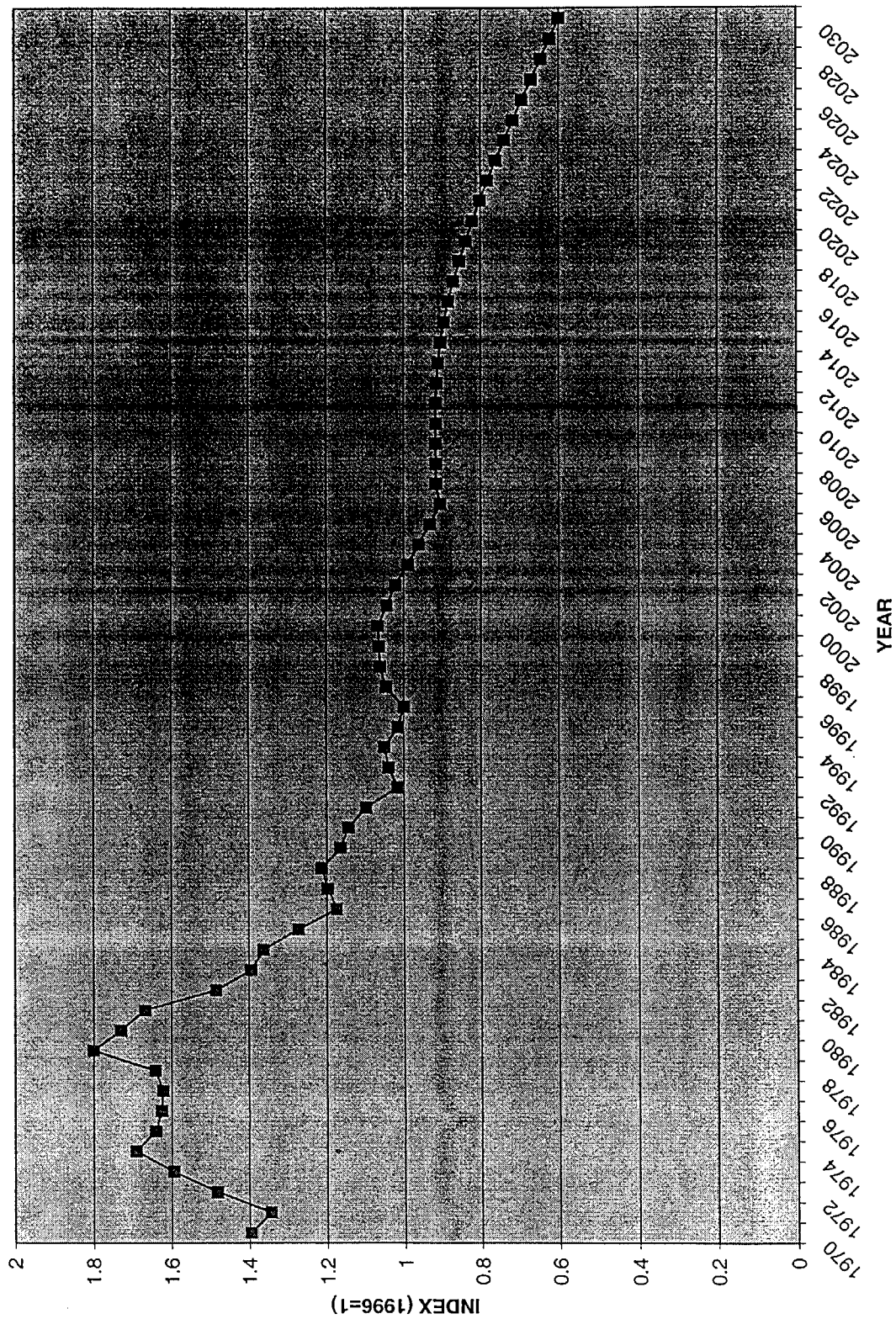


Figure IV-6. Fugitive Windblown Dust from Agricultural Lands (Non-Pasture)

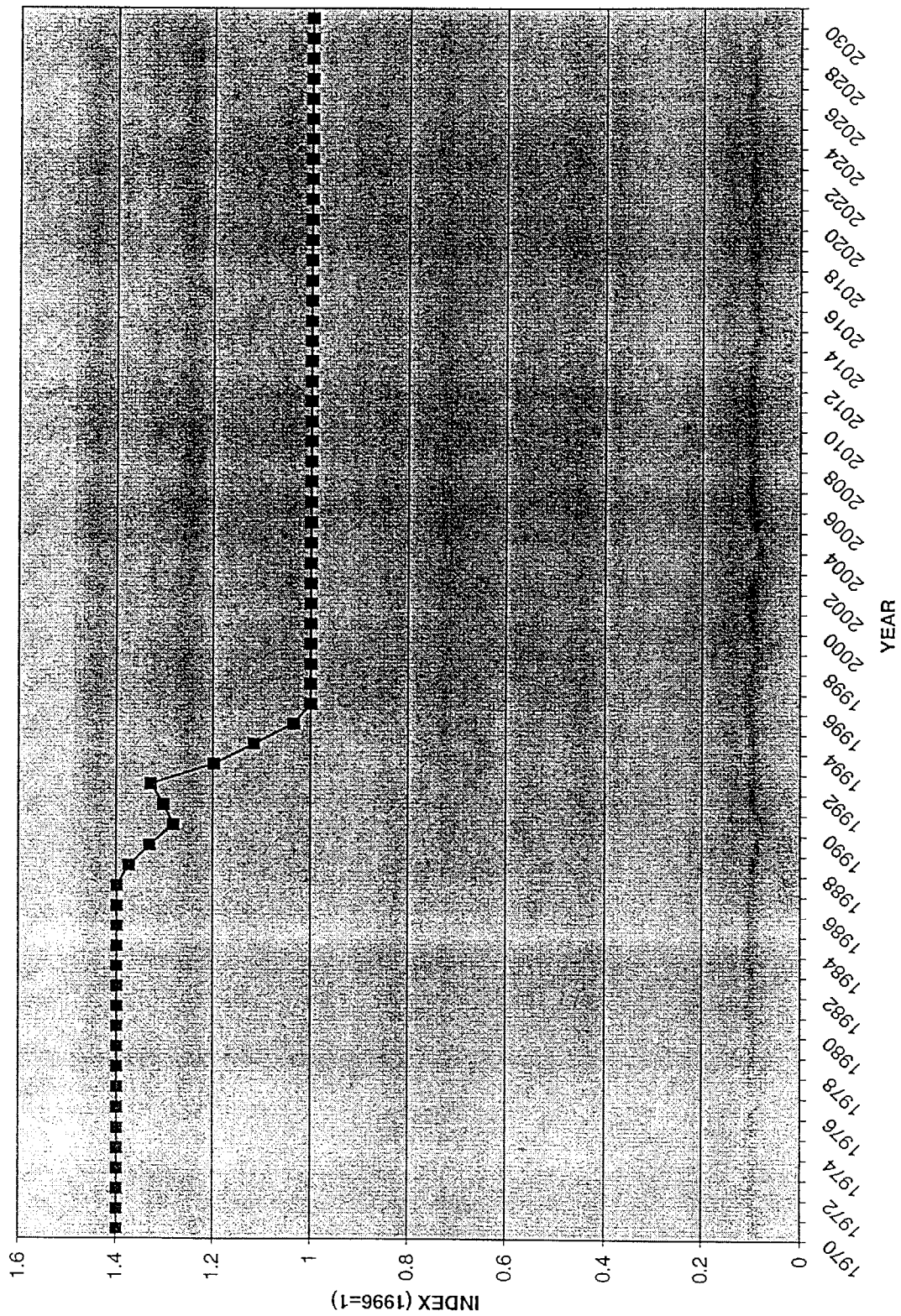


Figure IV-7. Fugitive Windblown Dust from Unpaved Roads and Associated Areas

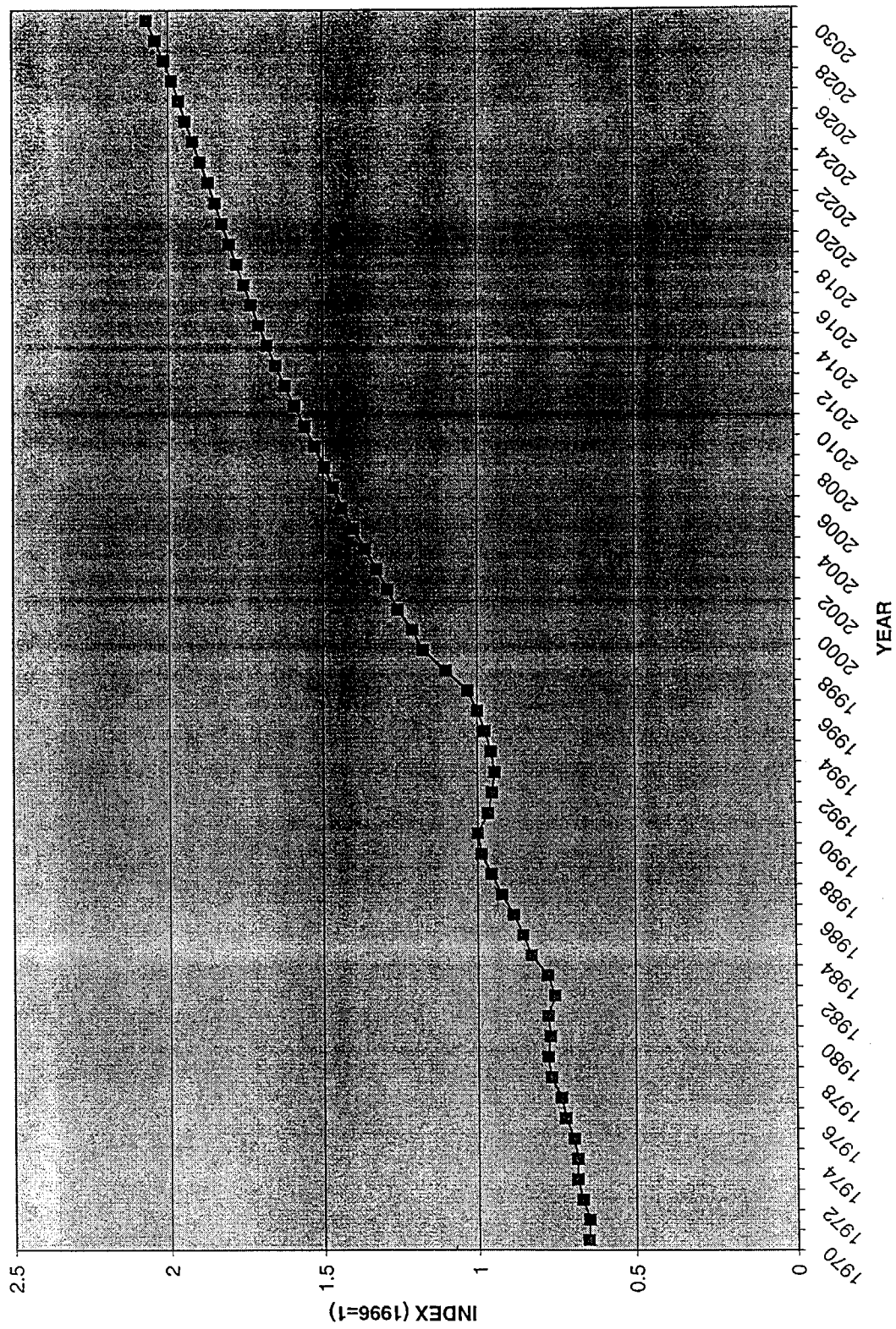


Figure IV-8. Class II and III Landfills, Municipal Solid Waste Landfills

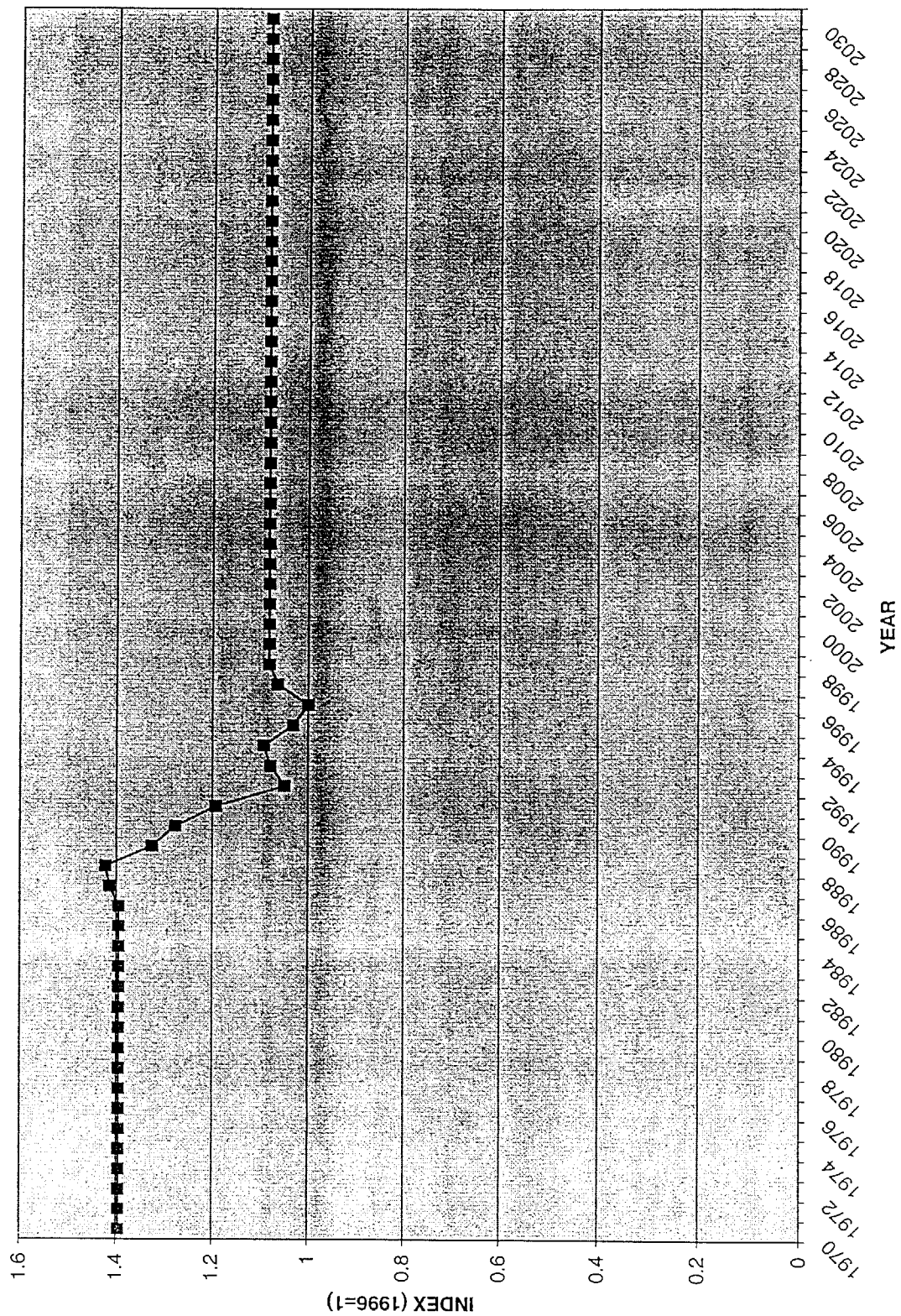


Figure IV-9. Agricultural Burning - Field Crops

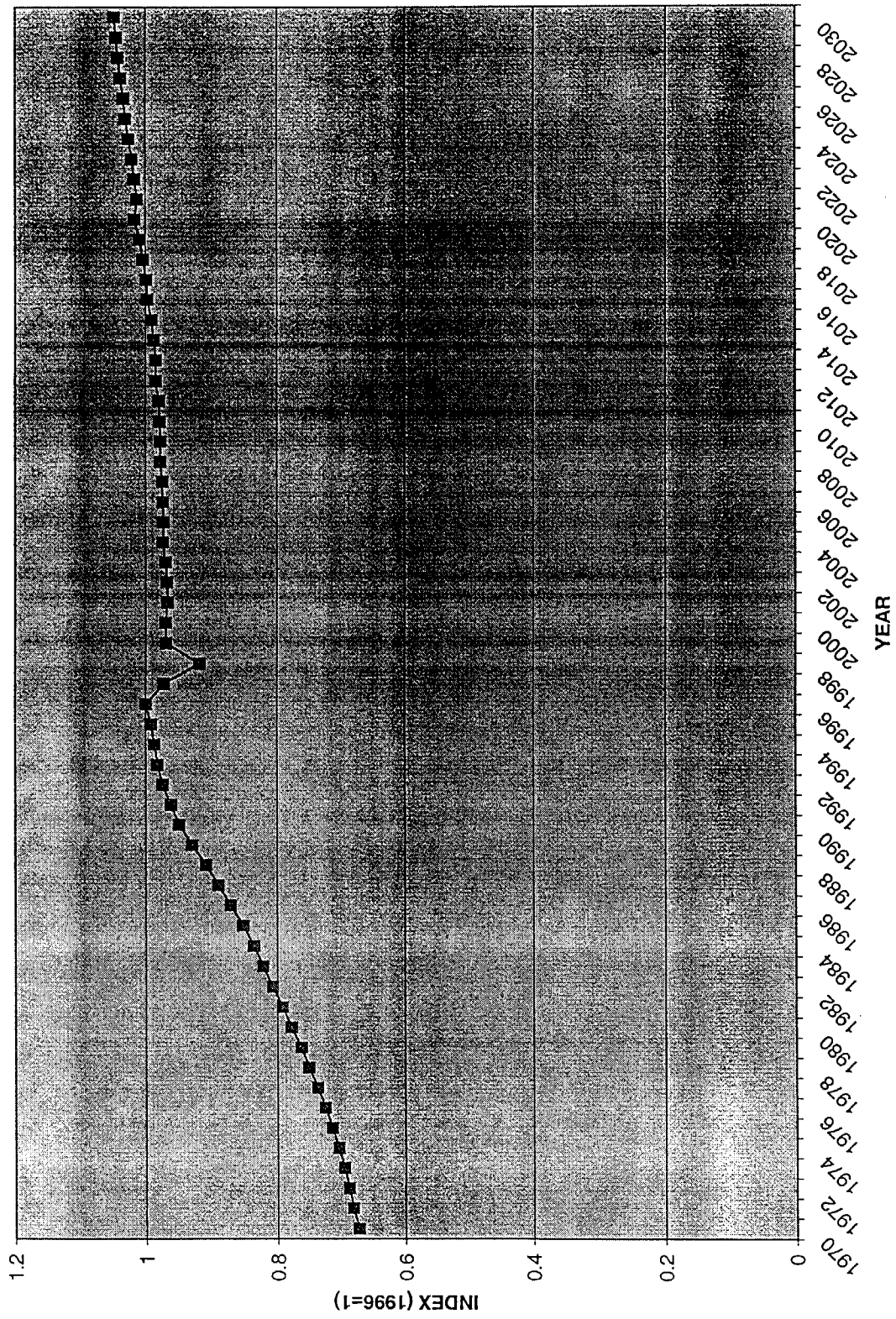


Figure IV-10. Residential Wood Combustion, Wood Stoves

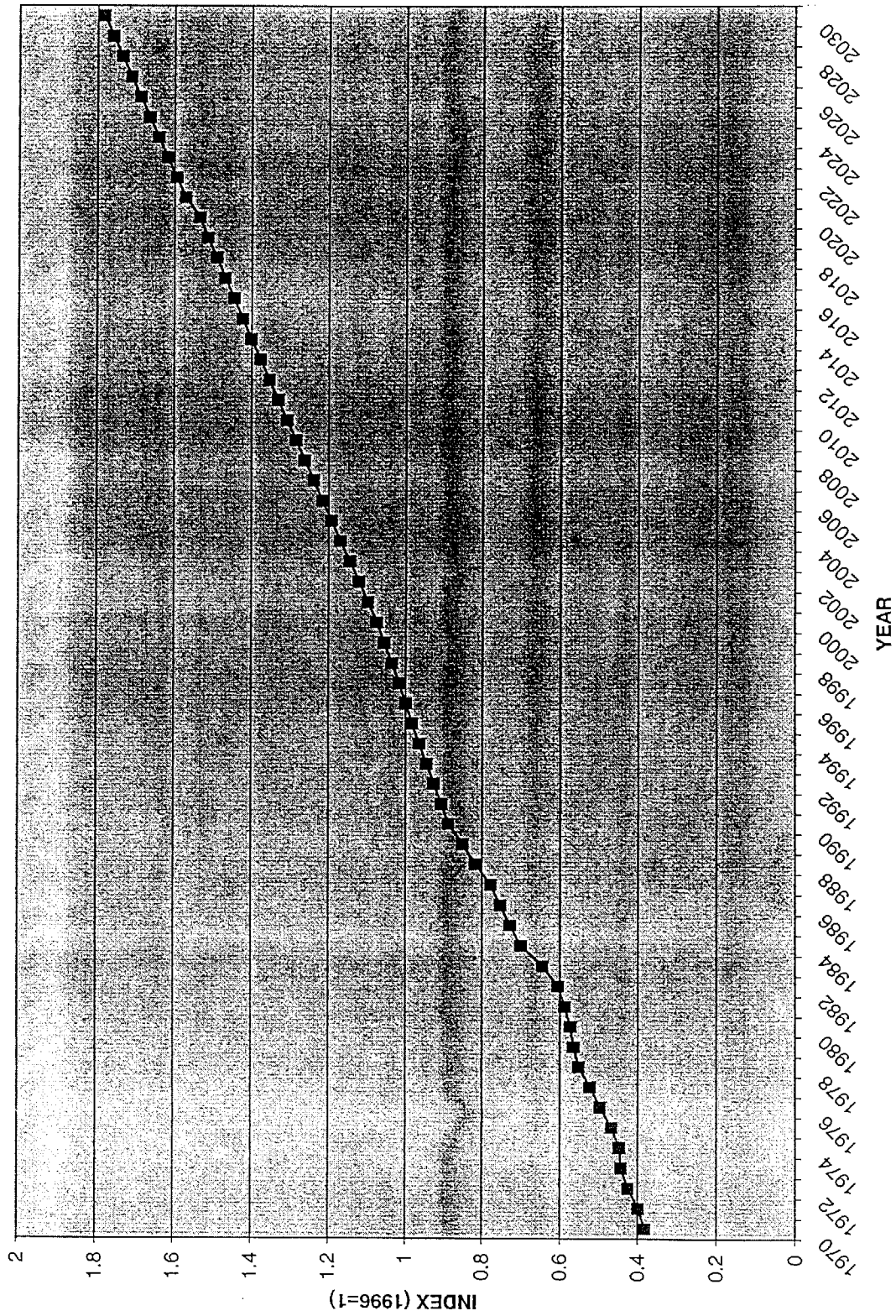


Figure IV-11. Paved Entrained Road Dust -Local Streets and -Major Streets

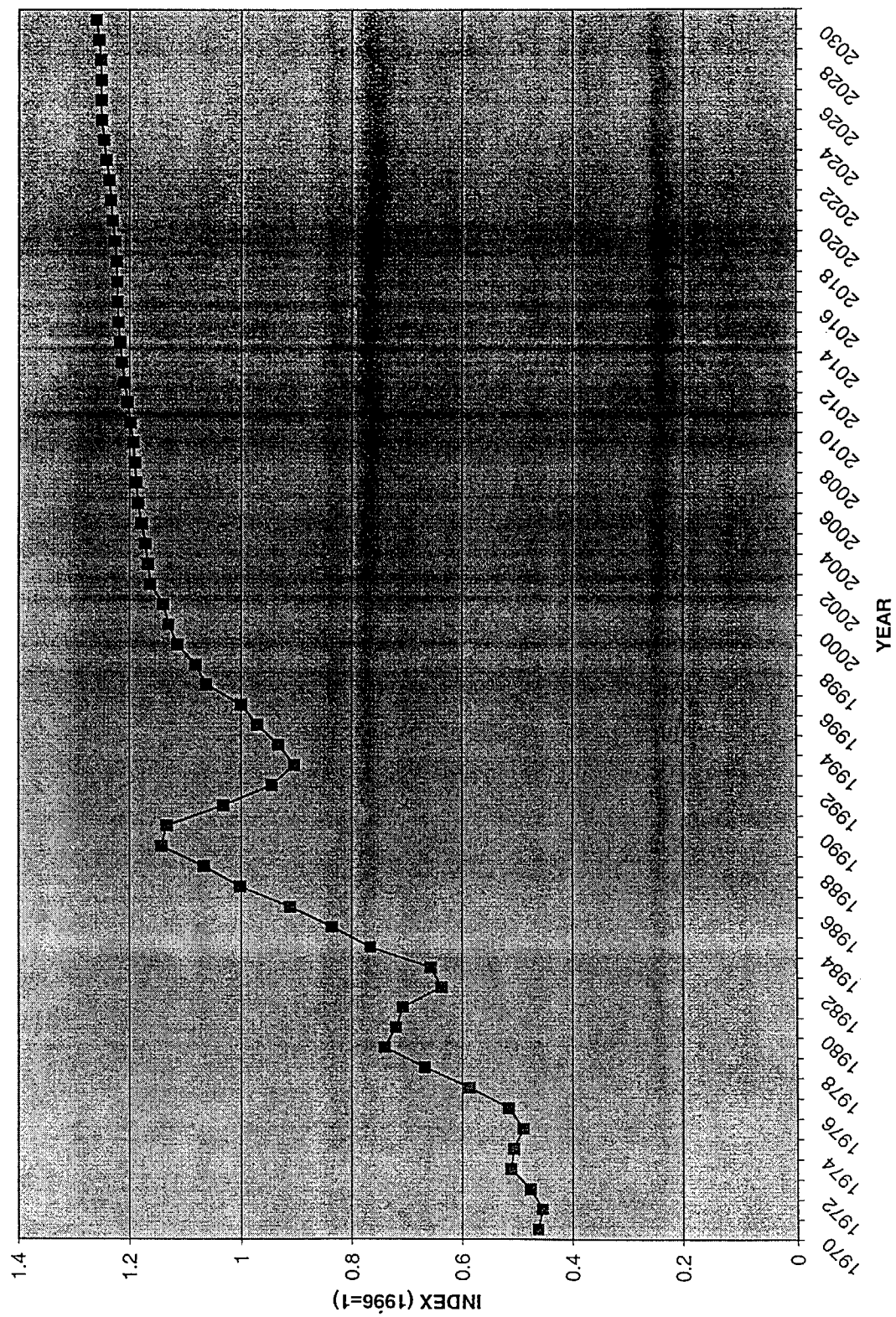


Figure IV-12. Road Construction Dust

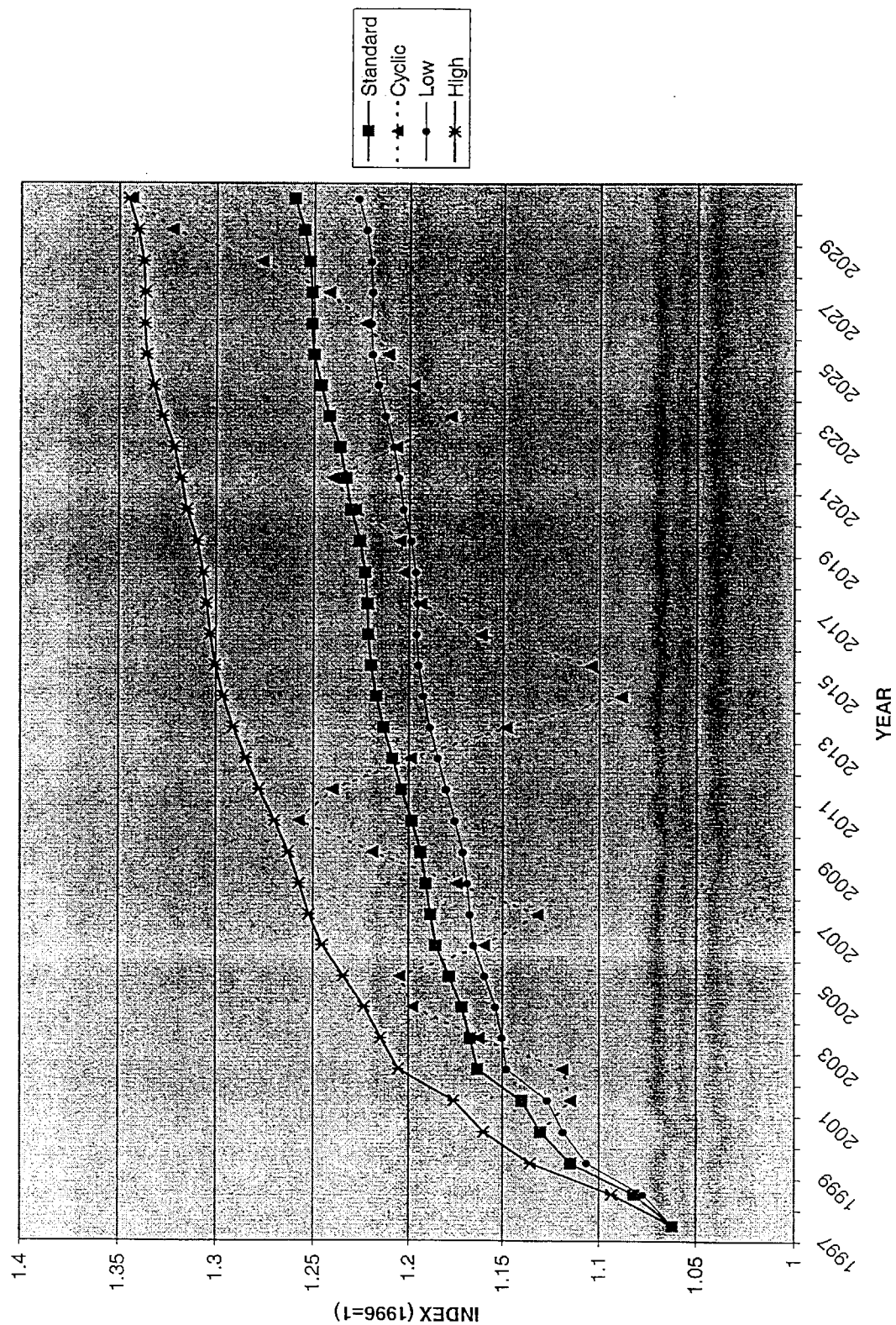


Figure IV-13. Comparison of Road Construction Dust Forecast Scenarios

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GLOSSARY OF TERMS, ABBREVIATIONS, AND SYMBOLS

AEO	Annual Energy Outlook
ARB	Air Resources Board
BEA	Bureau of Economic Analysis
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
Caltrans	California Department of Transportation
CCA	California Cattlemens Association
CDFA	California Department of Food and Agriculture
CDFFP	California Department of Forestry and Fire Protection
CEC	California Energy Commission
CES	Category of Emission Source
CGE	Computable General Equilibrium
CIRB	Construction Industry Research Board
CSN	California-Southern Nevada
DOE	Department of Energy
DOF	Department of Finance
DO&G	Division of Oil and Gas
DPR	Department of Pesticide Regulation
EDFS	Economic and Demographic Forecasting and Simulation
EFS	Emission Forecasting System
EGAS	Economic Growth Analysis System
EIA	Energy Information Administration
EIC	emission inventory code
EIIP	Emission Inventory Improvement Program
EPA	U.S. Environmental Protection Agency
GAP	Growth Activity Profile
I.C.	internal combustion
IWMB	Integrated Waste Management Board
LDT	light-duty truck
MDT	medium-duty truck
NBER-CES	National Bureau of Economic Research-Center for Economic Studies
PAD	parameter assignment data
PGE	Pacific Gas and Electric
PM ₁₀	particulate matter with an aerodynamic diameter of 10 micrometers or less
REMI	Regional Economic Models, Inc.
ROG	reactive organic gas
RSQE	Research Seminar in Quantitative Economics
SCC	source classification code
SCG	Southern California Gas

GLOSSARY OF TERMS, ABBREVIATIONS, AND SYMBOLS (continued)

SDGE	San Diego Gas and Electric
SIC	standard industrial classification
U.S.	United States
VMT	vehicle miles traveled
WEQ	wind erosion equation
WSCC	Western Systems Coordinating Council

TABLES REFERENCED IN REPORT

The following presents the tables referenced in the body of this report. The table numbers, which are listed below, identify the section and order in which they appear in the report.

<u>Section/Table No.</u>	<u>Description</u>
II-1.	Unique List of Non-Fuel Combustion Point Source Growth Parameters
II-2.	Non-Fuel Combustion Point Source Growth Parameter Assignments
II-3.	Unique List of Fuel Projections Categories Incorporated Into REMI/AEO Growth Parameters
II-4.	Fuel Combustion Point Source Growth Parameter Assignments
II-5.	Non-Mobile Area Source Growth Parameter Assignments
III-1.	Details on Regression-Based Approaches
IV-1.	Number of Growth Parameters Included in Each Forecast Scenario
IV-2.	List of Growth Parameters Only Included in Best Estimate Forecast Scenario

Table II-1. Unique List of Non-Fuel Combustion Point Source Growth Parameters

GROWTH_PARAMETER	DESCRIPTION	SIC CODES
SIC_01&02out	Farm output	01, 02
SIC_7-out	Agricultural services output	07, 09
SIC_8&9-out	Forestry, fishing, hunting, & trapping output	08, 09
SIC_10-out	Metal mining output	10
SIC_12-out	Coal mining output	12
SIC_13-out	Oil and gas production output	13
SIC_131&2out	Crude petrol, nat. gas & gas liquids output	131, 132
SIC_138_out	Oil and gas field services output	138
SIC_14-out	Nonmetallic minerals, except fuels output	14
SIC_15-17out	Construction output	15-17
SIC_201-out	Meat products output	201
SIC_202-out	Dairy products output	202
SIC_203-out	Preserved fruits and vegetables output	203
SIC_20-39out	Manufacturing output	20-39
SIC_204&7out	Grain mill products and fats and oils output	204, 207
SIC_205-out	Bakery products output	205
SIC_206-out	Sugar and confectionery products output	206
SIC_208-out	Beverages output	208
SIC_209-out	Misc. food & kindred products output	209
SIC_21-out	Tobacco manufacturing output	21
SIC_221+-out	Weaving, finishing, yarn, & thread mills output	221-224, 226, 228
SIC_225-out	Knitting mills output	225
SIC_227-out	Carpets and rugs output	227
SIC_229-out	Miscellaneous textile goods output	229
SIC_231+-out	Apparel output	231-238
SIC_239-out	Misc. fabricated textile products output	239
SIC_241-out	Logging output	241
SIC_242-out	Sawmills and planing mills output	242
SIC_243-out	Millwork, plywood, & struct members output	243
SIC_244&9out	Wood containers & misc. wood prods output	244, 249
SIC_245-out	Wood buildings and mobile homes output	245
SIC_25-out	Furniture and fixtures output	25
SIC_251-out	Household furniture output	251
SIC_252+-out	Office and misc. furniture and fixtures output	252, 253, 259
SIC_254-out	Partitions and fixtures output	254
SIC_26-out	Paper and allied products output	26
SIC_261-3out	Pulp, paper, and paperboard mills output	261-263
SIC_265-out	Paperboard containers and boxes output	265
SIC_267-out	Converted paper prods exc. containers output	267
SIC_27-out	Printing and publishing output	27
SIC_271-out	Newspapers output	271
SIC_272-out	Periodicals output	272
SIC_273-out	Books output	273
SIC_274-out	Miscellaneous publishing output	274
SIC_275&6out	Commercial printing and business forms output	275, 276
SIC_277-out	Greeting cards output	277
SIC_278-out	Blankbooks and bookbinding output	278
SIC_279-out	Service industries for the printing trade output	279
SIC_281&6out	Industrial chemicals output	281, 286
SIC_282-out	Plastics materials and synthetics output	282
SIC_283-out	Drugs output	283
SIC_284-out	Soap, cleaners, and toilet goods output	284
SIC_285-out	Paints and allied products output	285

Table II-1 (continued)

GROWTH_PARAMETER	DESCRIPTION	SIC CODES
SIC_287-out	Agricultural chemicals output	287
SIC_289-out	Miscellaneous chemical products output	289
SIC_291-out	Petroleum refining output	291
SIC_295&9out	Misc. petroleum and coal products output	295, 299
SIC_30-out	Rubber output	30
SIC_301-out	Tires and inner tubes output	301
SIC_302+-out	Rubber prods & plastic hose & footwear output	302, 305, 306
SIC_308-out	Miscellaneous plastics products, nec output	308
SIC_311+-out	Luggage, handbags, & leath prods, nec output	311, 315-317, 319
SIC_313&4out	Footwear, except rubber and plastic output	313, 314
SIC_321+-out	Glass and glass products output	321-323
SIC_324-out	Hydraulic cement output	324
SIC_325+-out	Stone, clay, & misc. mineral products output	325, 326, 328, 329
SIC_327-out	Concrete, gypsum, & plaster products output	327
SIC_331-out	Blast furnaces & basic steel products output	331
SIC_332-out	Iron and steel foundries output	332
SIC_333-out	Primary nonferrous smelting & refining output	333
SIC_334&9out	Secdry nonferr & misc primary metal output	334, 339
SIC_335-out	Nonferrous rolling and drawing output	335
SIC_336-out	Nonferrous foundries output	336
SIC_341-out	Metal cans and shipping containers output	341
SIC_342-out	Cutlery, hand tools, and hardware output	342
SIC_343-out	Plumbing & nonelectric heating equip output	343
SIC_344-out	Fabricated structural metal products output	344
SIC_345-out	Screw machine prods, bolts, rivets, etc output	345
SIC_346-out	Metal forgings and stampings output	346
SIC_347-out	Metal coating, engraving, & allied serv output	347
SIC_348-out	Ordnance and ammunition output	348
SIC_349-out	Misc. fabricated metal products output	349
SIC_351-out	Engines and turbines output	351
SIC_352-out	Farm & garden machinery & equip output	352
SIC_353-out	Construction & related machinery output	353
SIC_354-out	Metalworking machinery & equipment output	354
SIC_355-out	Special industry machinery output	355
SIC_356-out	Genl industrial machinery & equip output	356
SIC_357-out	Computer and office equipment output	357
SIC_358-out	Refrig. & service industry machinery output	358
SIC_359-out	Industrial machinery, nec output	359
SIC_36-out	Electronic & other electric equipment output	36
SIC_361-out	Electric distribution equipment output	361
SIC_362-out	Electrical industrial apparatus output	362
SIC_363-out	Household appliances output	363
SIC_364-out	Electric lighting & wiring equipment output	364
SIC_365-out	Household audio & video equipment output	365
SIC_366-out	Communications equipment output	366
SIC_367-out	Electronic components & accessories output	367
SIC_369-out	Miscellaneous electrical equipment output	369
SIC_371-out	Motor vehicles output	371
SIC_372&6out	Aerospace output	372, 376
SIC_373-out	Ship and boat building and repairing output	373
SIC_374-out	Railroad equipment output	374
SIC_375&9out	Misc. transportation equipment output	375, 379
SIC_38-out	Instruments output	38

Table II-1 (continued)

GROWTH_PARAMETER	DESCRIPTION	SIC CODES
SIC_381-out	Search and navigation equipment output	381
SIC_382-out	Measuring and controlling devices output	382
SIC_384-out	Medical equip, instruments & supplies output	384
SIC_385-out	Ophthalmic goods output	385
SIC_386-out	Photographic equipment & supplies output	386
SIC_387-out	Watches, clocks, and parts output	387
SIC_39-out	Miscellaneous manufacturing output	39
SIC_391-out	Jewelry, silverware, and plated ware output	391
SIC_393+-out	Manufactured products, nec output	393, 395, 396, 399
SIC_394-out	Toys and sporting goods output	394
SIC_40-out	Railroad output	40
SIC_41-out	Local & interurban passenger transit output	41
SIC_42-out	Trucking and warehousing output	42
POSTAL	Postal clerks and mail carriers (number)	43
SIC_44-out	Water transportation output	44
SIC_45-out	Air transportation output	45
SIC_46-out	Pipelines, except natural gas output	46
SIC_472-out	Passenger transportation arrangement output	472
SIC_473+-out	Miscellaneous transportation services output	473, 474, 478
SIC_48-out	Communications output	48
SIC_491&3out	Electric utilities output	491, 493
TOTAL_UTIL	Total utility fuel use from CEC, EIA, & regress- SIC_491&3out	491, 493
SIC_492&3out	Gas utilities output	492, 493
SIC_494+-out	Water and sanitation output	494-497, 493
SIC_50&1-out	Wholesale trade output	50, 51
SIC_52+-out	Rest of retail output	52-57, 59
SIC_58-out	Eating and drinking output	58
SIC_60-out	Depository institutions output	60
SIC_61&7-out	Nondepository; holding & invest offices output	61, 67
SIC_62-out	Security and commodity brokers output	62
SIC_63-out	Insurance carriers output	63
SIC_64-out	Insurance agents, brokers, & service output	64
SIC_65-out	Real estate output	65
SIC_70-out	Hotels and other lodging places output	70
SIC_72&6out	Personal and miscellaneous services output	72, 76
SIC_721&5out	Laundry, cleaning, and shoe repair output	721, 725
SIC_722&9out	Personal services, nec output	722, 729
SIC_723&4out	Beauty and barber shops output	723, 724
SIC_726-out	Funeral service and crematories output	726
SIC_73-out	Business services output	73
SIC_731-out	Advertising output	731
SIC_732+-out	Miscellaneous business services output	732, 733, 738
SIC_734-out	Services to buildings output	734
SIC_735-out	Misc. equipment rental & leasing output	735
SIC_736-out	Personnel supply services output	736
SIC_737-out	Computer & data processing services output	737
SIC_751-out	Automotive rentals, without drivers output	751
SIC_752-4out	Automobile parking, repair, & services output	752-754
SIC_762-out	Electrical repair shops output	762
SIC_763-4out	Watch, jewelry, & furniture repair output	763, 764
SIC_769-out	Miscellaneous repair services output	769
SIC_781-3out	Motion pictures output	781-783

Table II-1 (continued)

GROWTH_PARAMETER	DESCRIPTION	SIC CODES
SIC_784-out	Video tape rental output	784
SIC_791&9out	Amusement & recreation services, nec output	791, 799
SIC_792-out	Producers, orchestras, & entertainers output	792
SIC_793-out	Bowling centers output	793
SIC_794-out	Commercial sports output	794
SIC_801-4out	Offices of health practitioners output	801-804
SIC_805-out	Nursing and personal care facilities output	805
SIC_806-out	Hospitals output	806
SIC_807-9out	Health services, nec output	807-809
SIC_81-out	Legal services output	81
SIC_81+-out	Legal, eng. & mgmnt, and misc. serv output	81, 87, 89
SIC_82-out	Educational services output	82
SIC_832&9out	Individual & misc. social services output	832, 839
SIC_833-out	Job training and related services output	833
SIC_835-out	Child day care services output	835
SIC_836-out	Residential care output	836
SIC_84-out	Museums, botanical, zoological gardens output	84
SIC_86-out	Membership organizations output	86
SIC_871-out	Engineering & architectural services output	871
SIC_872+-out	Accounting, auditing, & other services output	872, 89
SIC_873-out	Research and testing services output	873
SIC_874-out	Management and public relations output	874
SIC_88-out	Private household output	88
SIC_91-97out	Government output	91-97
FED_MIL-out	Federal military output	945, 971
FED_CIVL-out	Federal civilian output	966, 972
TOTAL-out	Total output (bil 92\$)	999

Table II-2. Non-Fuel Combustion Point Source Growth Parameter Assignments

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_20-39out	2	INVALID SIC	County data: Manufacturing output
SIC_01&02out	111	Wheat	County data: Farm output
SIC_01&02out	112	Rice	County data: Farm output
SIC_01&02out	115	Corn	County data: Farm output
SIC_01&02out	116	Soybeans	County data: Farm output
SIC_01&02out	119	Cash grains, nec	County data: Farm output
SIC_01&02out	131	Cotton	County data: Farm output
SIC_01&02out	132	Tobacco	County data: Farm output
SIC_01&02out	133	Sugarcane and sugar beets	County data: Farm output
SIC_01&02out	134	Irish potatoes	County data: Farm output
SIC_01&02out	139	Field crops, except cash grains, nec	County data: Farm output
SIC_01&02out	161	Vegetables and melons	County data: Farm output
SIC_01&02out	171	Berry crops	County data: Farm output
SIC_01&02out	172	Grapes	County data: Farm output
SIC_01&02out	173	Tree nuts	County data: Farm output
SIC_01&02out	174	Citrus fruits	County data: Farm output
SIC_01&02out	175	Deciduous tree fruits	County data: Farm output
SIC_01&02out	179	Fruits and tree nuts, nec	County data: Farm output
SIC_01&02out	181	Ornamental nursery products	County data: Farm output
SIC_01&02out	182	Food crops grown under cover	County data: Farm output
SIC_01&02out	191	General farms, primarily crop	County data: Farm output
SIC_01&02out	211	Beef cattle feedlots	County data: Farm output
SIC_01&02out	212	Beef cattle, except feedlots	County data: Farm output
SIC_01&02out	213	Hogs	County data: Farm output
SIC_01&02out	214	Sheep and goats	County data: Farm output
SIC_01&02out	219	General livestock, nec	County data: Farm output
SIC_01&02out	241	Dairy farms	County data: Farm output
SIC_01&02out	251	Broiler, fryer, and roaster chickens	County data: Farm output
SIC_01&02out	252	Chicken eggs	County data: Farm output
SIC_01&02out	253	Turkeys and turkey eggs	County data: Farm output
SIC_01&02out	254	Poultry hatcheries	County data: Farm output
SIC_01&02out	259	Poultry and eggs, nec	County data: Farm output
SIC_01&02out	271	Fur-bearing animals and rabbits	County data: Farm output
SIC_01&02out	272	Horses and other equines	County data: Farm output
SIC_01&02out	273	Animal aquaculture	County data: Farm output
SIC_01&02out	279	Animal specialties, nec	County data: Farm output
SIC_01&02out	291	General farms, primarily animal	County data: Farm output
SIC_7-out	711	Soil preparation services	County data: Agricultural services output
SIC_7-out	721	Crop planting and protecting	County data: Agricultural services output
SIC_7-out	722	Crop harvesting	County data: Agricultural services output
SIC_7-out	723	Crop preparation services for market	County data: Agricultural services output
SIC_7-out	724	Cotton ginning	County data: Agricultural services output
SIC_7-out	741	Veterinary services for livestock	County data: Agricultural services output
SIC_7-out	742	Veterinary services, specialties	County data: Agricultural services output
SIC_7-out	751	Livestock services, exc. veterinary	County data: Agricultural services output
SIC_7-out	752	Animal specialty services	County data: Agricultural services output
SIC_7-out	761	Farm labor contractors	County data: Agricultural services output
SIC_7-out	762	Farm management services	County data: Agricultural services output
SIC_7-out	781	Landscape counseling and planning	County data: Agricultural services output
SIC_7-out	782	Lawn and garden services	County data: Agricultural services output
SIC_7-out	783	Ornamental shrub and tree services	County data: Agricultural services output
SIC_8&9-out	811	Timber tracts	County data: Forestry, fishing, hunting, & trapping output
SIC_8&9-out	831	Forest products	County data: Forestry, fishing, hunting, & trapping output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_8&9-out	851	Forestry services	County data: Forestry, fishing, hunting, & trapping output
SIC_8&9-out	912	Finfish	County data: Forestry, fishing, hunting, & trapping output
SIC_8&9-out	913	Shellfish	County data: Forestry, fishing, hunting, & trapping output
SIC_8&9-out	919	Miscellaneous marine products	County data: Forestry, fishing, hunting, & trapping output
SIC_8&9-out	921	Fish hatcheries and preserves	County data: Forestry, fishing, hunting, & trapping output
SIC_8&9-out	971	Hunting, trapping, game propagation	County data: Forestry, fishing, hunting, & trapping output
SIC_10-out	1011	Iron ores	County data: Metal mining output
SIC_10-out	1021	Copper ores	County data: Metal mining output
SIC_10-out	1031	Lead and zinc ores	County data: Metal mining output
SIC_10-out	1041	Gold ores	County data: Metal mining output
SIC_10-out	1044	Silver ores	County data: Metal mining output
SIC_10-out	1061	Ferroalloy ores, except vanadium	County data: Metal mining output
SIC_10-out	1081	Metal mining services	County data: Metal mining output
SIC_10-out	1094	Uranium-radium-vanadium ores	County data: Metal mining output
SIC_10-out	1099	Metal ores, nec	County data: Metal mining output
SIC_12-out	1182	INVALID SIC	County data: Coal mining output
SIC_12-out	1221	Bituminous coal and lignite - surface	County data: Coal mining output
SIC_12-out	1222	Bituminous coal - underground	County data: Coal mining output
SIC_12-out	1231	Anthracite mining	County data: Coal mining output
SIC_12-out	1241	Coal mining services	County data: Coal mining output
SIC_13-out	1300	Oil and Gas Extraction	County data: Oil and gas production output
SIC_131&2out	1311	Crude petroleum and natural gas	County data: Crude petrol, nat. gas & gas liquids output
SIC_131&2out	1321	Natural gas liquids	County data: Crude petrol, nat. gas & gas liquids output
SIC_138_out	1381	Drilling oil and gas wells	County data: Oil and gas field services output
SIC_138_out	1382	Oil and gas exploration services	County data: Oil and gas field services output
SIC_138_out	1389	Oil and gas field services, nec	County data: Oil and gas field services output
SIC_14-out	1411	Dimension stone	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1422	Crushed and broken limestone	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1423	Crushed and broken granite	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1429	Crushed and broken stone, nec	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1442	Construction sand and gravel	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1446	Industrial sand	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1453	OUTDATED (1977) SIC	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1455	Kaolin and ball clay	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1459	Clay and related minerals, nec	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1474	Potash, soda, and borate minerals	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1475	Phosphate rock	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1479	Chemical and fertilizer mining, nec	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1481	Nonmetallic minerals services	County data: Nonmetallic minerals, except fuels output
SIC_14-out	1499	Miscellaneous Nonmetallic Minerals	County data: Nonmetallic minerals, except fuels output
SIC_15-17out	1521	Single-family housing construction	County data: Construction output
SIC_15-17out	1522	Residential construction, nec	County data: Construction output
SIC_15-17out	1531	Operative builders	County data: Construction output
SIC_15-17out	1541	Industrial buildings and warehouses	County data: Construction output
SIC_15-17out	1542	Nonresidential construction, nec	County data: Construction output
SIC_15-17out	1611	Highway and street construction	County data: Construction output
SIC_15-17out	1622	Bridge, tunnel, & Elevated highway	County data: Construction output
SIC_15-17out	1623	Water, sewer, and utility lines	County data: Construction output
SIC_15-17out	1629	Heavy construction, nec	County data: Construction output
SIC_15-17out	1700	Special Trade Contractors	County data: Construction output
SIC_15-17out	1711	Plumbing, heating, air-conditioning	County data: Construction output
SIC_15-17out	1721	Painting and paper hanging	County data: Construction output
SIC_15-17out	1731	Electrical work	County data: Construction output
SIC_15-17out	1741	Masonry and other stonework	County data: Construction output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_15-17out	1742	Plastering, drywall, and insulation	County data: Construction output
SIC_15-17out	1743	Terrazzo, tile, marble, mosaic work	County data: Construction output
SIC_15-17out	1751	Carpentry work	County data: Construction output
SIC_15-17out	1752	Floor laying and floor work, nec	County data: Construction output
SIC_15-17out	1761	Roofing, siding, and sheet metal work	County data: Construction output
SIC_15-17out	1771	Concrete work	County data: Construction output
SIC_15-17out	1781	Water well drilling	County data: Construction output
SIC_15-17out	1791	Structural steel erection	County data: Construction output
SIC_15-17out	1793	Glass and glazing work	County data: Construction output
SIC_15-17out	1794	Excavation work	County data: Construction output
SIC_15-17out	1795	Wrecking and demolition work	County data: Construction output
SIC_15-17out	1796	Installing building equipment, nec	County data: Construction output
SIC_15-17out	1799	Special trade contractors, nec	County data: Construction output
SIC_201-out	2011	Meat packing plants	County data: Meat products output
SIC_201-out	2013	Sausages and other prepared meats	County data: Meat products output
SIC_201-out	2015	Poultry slaughtering and processing	County data: Meat products output
SIC_202-out	2021	Creamery butter	County data: Dairy products output
SIC_202-out	2022	Cheese, natural and processed	County data: Dairy products output
SIC_202-out	2023	Dry, condensed, evaporated products	County data: Dairy products output
SIC_202-out	2024	Ice cream and frozen desserts	County data: Dairy products output
SIC_202-out	2026	Fluid milk	County data: Dairy products output
SIC_203-out	2032	Canned specialties	County data: Preserved fruits and vegetables output
SIC_203-out	2033	Canned fruits and vegetables	County data: Preserved fruits and vegetables output
SIC_203-out	2034	Dehydrated fruits, vegetables, soups	County data: Preserved fruits and vegetables output
SIC_203-out	2035	Pickles, sauces, and salad dressings	County data: Preserved fruits and vegetables output
SIC_203-out	2037	Frozen fruits and vegetables	County data: Preserved fruits and vegetables output
SIC_203-out	2038	Frozen specialties, nec	County data: Preserved fruits and vegetables output
SIC_204&7out	2041	Flour and other grain mill products	County data: Grain mill products and fats and oils output
SIC_204&7out	2043	Cereal breakfast foods	County data: Grain mill products and fats and oils output
SIC_204&7out	2044	Rice milling	County data: Grain mill products and fats and oils output
SIC_204&7out	2045	Prepared flour mixes and doughs	County data: Grain mill products and fats and oils output
SIC_204&7out	2046	Wet corn milling	County data: Grain mill products and fats and oils output
SIC_204&7out	2047	Dog and cat food	County data: Grain mill products and fats and oils output
SIC_204&7out	2048	Prepared feeds, nec	County data: Grain mill products and fats and oils output
SIC_205-out	2051	Bread, cake, and related products	County data: Bakery products output
SIC_205-out	2052	Cookies and crackers	County data: Bakery products output
SIC_205-out	2053	Frozen bakery products, except bread	County data: Bakery products output
SIC_206-out	2061	Raw cane sugar	County data: Sugar and confectionery products output
SIC_206-out	2062	Cane sugar refining	County data: Sugar and confectionery products output
SIC_206-out	2063	Beet sugar	County data: Sugar and confectionery products output
SIC_206-out	2064	Candy & other confectionery products	County data: Sugar and confectionery products output
SIC_206-out	2065	OUTDATED (1977) SIC	County data: Sugar and confectionery products output
SIC_206-out	2066	Chocolate and cocoa products	County data: Sugar and confectionery products output
SIC_206-out	2067	Chewing gum	County data: Sugar and confectionery products output
SIC_206-out	2068	Salted and roasted nuts and seeds	County data: Sugar and confectionery products output
SIC_204&7out	2074	Cottonseed oil mills	County data: Grain mill products and fats and oils output
SIC_204&7out	2075	Soybean oil mills	County data: Grain mill products and fats and oils output
SIC_204&7out	2076	Vegetable oil mills, nec	County data: Grain mill products and fats and oils output
SIC_204&7out	2077	Animal and marine fats and oils	County data: Grain mill products and fats and oils output
SIC_204&7out	2079	Edible fats and oils, nec	County data: Grain mill products and fats and oils output
SIC_208-out	2082	Malt beverages	County data: Beverages output
SIC_208-out	2083	Malt	County data: Beverages output
SIC_208-out	2084	Wines, brandy, and brandy spirits	County data: Beverages output
SIC_208-out	2085	Distilled and blended liquors	County data: Beverages output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_208-out	2086	Bottled and canned soft drinks	County data: Beverages output
SIC_208-out	2087	Flavoring extracts and syrups, nec	County data: Beverages output
SIC_209-out	2091	Canned and cured fish and seafoods	County data: Misc. food & kindred products output
SIC_209-out	2092	Fresh or frozen prepared fish	County data: Misc. food & kindred products output
SIC_209-out	2095	Roasted coffee	County data: Misc. food & kindred products output
SIC_209-out	2096	Potato chips and similar snacks	County data: Misc. food & kindred products output
SIC_209-out	2097	Manufactured ice	County data: Misc. food & kindred products output
SIC_209-out	2098	Macaroni and spaghetti	County data: Misc. food & kindred products output
SIC_209-out	2099	Food preparations, nec	County data: Misc. food & kindred products output
SIC_21-out	2111	Cigarettes	County data: Tobacco manufacturing output
SIC_21-out	2121	Cigars	County data: Tobacco manufacturing output
SIC_21-out	2131	Chewing and smoking tobacco	County data: Tobacco manufacturing output
SIC_21-out	2141	Tobacco stemming and redrying	County data: Tobacco manufacturing output
SIC_221+-out	2211	Broadwoven fabric mills, cotton	County data: Weaving, finishing, yarn, & thread mills output
SIC_221+-out	2221	Broadwoven fabric mills, manmade	County data: Weaving, finishing, yarn, & thread mills output
SIC_221+-out	2231	Broadwoven fabric mills, wool	County data: Weaving, finishing, yarn, & thread mills output
SIC_221+-out	2241	Narrow fabric mills	County data: Weaving, finishing, yarn, & thread mills output
SIC_225-out	2251	Women's hosiery, except socks	County data: Knitting mills output
SIC_225-out	2252	Hosiery, nec	County data: Knitting mills output
SIC_225-out	2253	Knit outerwear mills	County data: Knitting mills output
SIC_225-out	2254	Knit underwear mills	County data: Knitting mills output
SIC_225-out	2257	Weft knit fabric mills	County data: Knitting mills output
SIC_225-out	2258	Lace & warp knit fabric mills	County data: Knitting mills output
SIC_225-out	2259	Knitting mills, nec	County data: Knitting mills output
SIC_221+-out	2261	Finishing plants, cotton	County data: Weaving, finishing, yarn, & thread mills output
SIC_221+-out	2262	Finishing Plants, manmade	County data: Weaving, finishing, yarn, & thread mills output
SIC_221+-out	2269	Finishing plants, nec	County data: Weaving, finishing, yarn, & thread mills output
SIC_227-out	2273	Carpets and rugs	County data: Carpets and rugs output
SIC_221+-out	2281	Yarn spinning mills	County data: Weaving, finishing, yarn, & thread mills output
SIC_221+-out	2282	Throwing and winding mills	County data: Weaving, finishing, yarn, & thread mills output
SIC_221+-out	2284	Thread mills	County data: Weaving, finishing, yarn, & thread mills output
SIC_229-out	2295	Coated fabrics, not rubberized	County data: Miscellaneous textile goods output
SIC_229-out	2296	Tire cord and fabrics	County data: Miscellaneous textile goods output
SIC_229-out	2297	Nonwoven fabrics	County data: Miscellaneous textile goods output
SIC_229-out	2298	Cordage and twine	County data: Miscellaneous textile goods output
SIC_229-out	2299	Textile goods, nec	County data: Miscellaneous textile goods output
SIC_231+-out	2311	Men's and boys' suits and coats	County data: Apparel output
SIC_231+-out	2321	Men's and boys' shirts	County data: Apparel output
SIC_231+-out	2322	Men's and boys' underwear & nightwear	County data: Apparel output
SIC_231+-out	2323	Men's and boys' neckwear	County data: Apparel output
SIC_231+-out	2325	Men's and boys' trousers and slacks	County data: Apparel output
SIC_231+-out	2326	Men's and boys' work clothing	County data: Apparel output
SIC_231+-out	2329	Men's and boys' clothing, nec	County data: Apparel output
SIC_231+-out	2331	Women's & misses' blouses & shirts	County data: Apparel output
SIC_231+-out	2335	Women's, juniors', & misses' dresses	County data: Apparel output
SIC_231+-out	2337	Women's and misses' suits and coats	County data: Apparel output
SIC_231+-out	2339	Women's and misses' outerwear, nec	County data: Apparel output
SIC_231+-out	2341	Women's and children's underwear	County data: Apparel output
SIC_231+-out	2342	Bras, girdles, and allied garments	County data: Apparel output
SIC_231+-out	2353	Hats, caps, and millinery	County data: Apparel output
SIC_231+-out	2361	Girls' and children's dresses, blouses	County data: Apparel output
SIC_231+-out	2369	Girls' and children's outerwear, nec	County data: Apparel output
SIC_231+-out	2371	Fur goods	County data: Apparel output
SIC_231+-out	2373	INVALID SIC	County data: Apparel output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_231+out	2381	Fabric dress and work gloves	County data: Apparel output
SIC_231+out	2384	Robes and dressing gowns	County data: Apparel output
SIC_231+out	2385	Waterproof outerwear	County data: Apparel output
SIC_231+out	2386	Leather and sheep-lined clothing	County data: Apparel output
SIC_231+out	2387	Apparel belts	County data: Apparel output
SIC_231+out	2389	Apparel and accessories, nec	County data: Apparel output
SIC_239-out	2391	Curtains and draperies	County data: Misc. fabricated textile products output
SIC_239-out	2392	Housefurnishing, nec	County data: Misc. fabricated textile products output
SIC_239-out	2393	Textile bags	County data: Misc. fabricated textile products output
SIC_239-out	2394	Canvas and related products	County data: Misc. fabricated textile products output
SIC_239-out	2395	Pleating and stitching	County data: Misc. fabricated textile products output
SIC_239-out	2396	Automotive and apparel trimmings	County data: Misc. fabricated textile products output
SIC_239-out	2397	Schiffli machine embroideries	County data: Misc. fabricated textile products output
SIC_239-out	2399	Fabricated textile products, nec	County data: Misc. fabricated textile products output
SIC_241-out	2411	Logging	County data: Logging output
SIC_242-out	2421	Sawmills and planing mills, general	County data: Sawmills and planing mills output
SIC_242-out	2426	Hardwood dimension & flooring mills	County data: Sawmills and planing mills output
SIC_242-out	2429	Special product sawmills, nec	County data: Sawmills and planing mills output
SIC_243-out	2431	Millwork	County data: Millwork, plywood, & struct members output
SIC_243-out	2432	INVALID SIC	County data: Millwork, plywood, & struct members output
SIC_243-out	2434	Wood kitchen cabinets	County data: Millwork, plywood, & struct members output
SIC_243-out	2435	Hardwood veneer and plywood	County data: Millwork, plywood, & struct members output
SIC_243-out	2436	Softwood veneer and plywood	County data: Millwork, plywood, & struct members output
SIC_243-out	2439	Structural wood members, nec	County data: Millwork, plywood, & struct members output
SIC_244&9out	2441	Nailed wood boxes and shoo	County data: Wood containers & misc. wood prods output
SIC_244&9out	2448	Wood pallets and skids	County data: Wood containers & misc. wood prods output
SIC_244&9out	2449	Wood containers, nec	County data: Wood containers & misc. wood prods output
SIC_245-out	2451	Mobile homes	County data: Wood buildings and mobile homes output
SIC_245-out	2452	Prefabricated wood buildings	County data: Wood buildings and mobile homes output
SIC_244&9out	2490	Miscellaneous Wood Product	County data: Wood containers & misc. wood prods output
SIC_244&9out	2491	Wood preserving	County data: Wood containers & misc. wood prods output
SIC_244&9out	2492	INVALID SIC	County data: Wood containers & misc. wood prods output
SIC_244&9out	2493	Reconstituted wood products	County data: Wood containers & misc. wood prods output
SIC_244&9out	2499	Wood products, nec	County data: Wood containers & misc. wood prods output
SIC_25-out	2500	Furniture and Fixtures	County data: Furniture and fixtures output
SIC_251-out	2511	Wood household furniture	County data: Household furniture output
SIC_251-out	2512	Upholstered household furniture	County data: Household furniture output
SIC_251-out	2514	Metal household furniture	County data: Household furniture output
SIC_251-out	2515	Mattresses and bedsprings	County data: Household furniture output
SIC_251-out	2517	Wood TV and radio cabinets	County data: Household furniture output
SIC_251-out	2519	Household furniture, nec	County data: Household furniture output
SIC_252+out	2521	Wood office furniture	County data: Office and misc. furniture and fixtures output
SIC_252+out	2522	Office furniture, except wood	County data: Office and misc. furniture and fixtures output
SIC_252+out	2531	Public building & related furniture	County data: Office and misc. furniture and fixtures output
SIC_252+out	2532	INVALID SIC	County data: Office and misc. furniture and fixtures output
SIC_254-out	2541	Wood partitions and fixtures	County data: Partitions and fixtures output
SIC_254-out	2542	Partitions and fixtures, except wood	County data: Partitions and fixtures output
SIC_252+out	2590	Miscellaneous Furniture and Fixtures	County data: Office and misc. furniture and fixtures output
SIC_252+out	2591	Draper hardware & blinds & shades	County data: Office and misc. furniture and fixtures output
SIC_252+out	2599	Furniture and fixtures, nec	County data: Office and misc. furniture and fixtures output
SIC_261-3out	2611	Pulp mills	County data: Pulp, paper, and paperboard mills output
SIC_261-3out	2621	Paper mills	County data: Pulp, paper, and paperboard mills output
SIC_261-3out	2631	Paperboard mills	County data: Pulp, paper, and paperboard mills output
SIC_26-out	2641	OUTDATED (1977) SIC	County data: Paper and allied products output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_26-out	2642	OUTDATED (1977) SIC	County data: Paper and allied products output
SIC_26-out	2649	OUTDATED (1977) SIC	County data: Paper and allied products output
SIC_265-out	2652	Setup paperboard boxes	County data: Paperboard containers and boxes output
SIC_265-out	2653	Corrugated and solid fiber boxes	County data: Paperboard containers and boxes output
SIC_265-out	2655	Fiber cans, drums & similar products	County data: Paperboard containers and boxes output
SIC_265-out	2656	Sanitary food containers	County data: Paperboard containers and boxes output
SIC_265-out	2657	Folding paperboard boxes	County data: Paperboard containers and boxes output
SIC_267-out	2671	Paper coated & laminated, packaging	County data: Converted paper prods exc. containers output
SIC_267-out	2672	Paper coated and laminated, nec	County data: Converted paper prods exc. containers output
SIC_267-out	2673	Bags: plastics, laminated, & coated	County data: Converted paper prods exc. containers output
SIC_267-out	2674	Bags: uncoated paper & multiwall	County data: Converted paper prods exc. containers output
SIC_267-out	2675	Die-cut paper and board	County data: Converted paper prods exc. containers output
SIC_267-out	2676	Sanitary paper products	County data: Converted paper prods exc. containers output
SIC_267-out	2677	Envelopes	County data: Converted paper prods exc. containers output
SIC_267-out	2678	Stationery products	County data: Converted paper prods exc. containers output
SIC_267-out	2679	Converted paper products, nec	County data: Converted paper prods exc. containers output
SIC_27-out	2700	Furniture and Fixtures	County data: Printing and publishing output
SIC_271-out	2711	Newspapers	County data: Newspapers output
SIC_272-out	2720	Periodicals	County data: Periodicals output
SIC_272-out	2721	Periodicals	County data: Periodicals output
SIC_273-out	2731	Book publishing	County data: Books output
SIC_273-out	2732	Book printing	County data: Books output
SIC_274-out	2741	Miscellaneous publishing	County data: Miscellaneous publishing output
SIC_275&6out	2750	Commercial Printing	County data: Commercial printing and business forms output
SIC_275&6out	2751	OUTDATED (1977) SIC	County data: Commercial printing and business forms output
SIC_275&6out	2752	Commercial printing, lithographic	County data: Commercial printing and business forms output
SIC_275&6out	2754	Commercial printing, gravure	County data: Commercial printing and business forms output
SIC_275&6out	2759	Commercial printing, nec	County data: Commercial printing and business forms output
SIC_275&6out	2761	Manifold business forms	County data: Commercial printing and business forms output
SIC_277-out	2771	Greeting cards	County data: Greeting cards output
SIC_278-out	2782	Blankbooks and loose-leaf binders	County data: Blankbooks and bookbinding output
SIC_278-out	2789	Bookbinding and related work	County data: Blankbooks and bookbinding output
SIC_279-out	2791	Typesetting	County data: Service industries for the printing trade output
SIC_279-out	2796	Platemaking services	County data: Service industries for the printing trade output
SIC_281&6out	2812	Alkalies and chlorine	County data: Industrial chemicals output
SIC_281&6out	2813	Industrial gases	County data: Industrial chemicals output
SIC_281&6out	2816	Inorganic pigments	County data: Industrial chemicals output
SIC_281&6out	2819	Industrial inorganic chemicals, nec	County data: Industrial chemicals output
SIC_282-out	2821	Plastics materials and resins	County data: Plastics materials and synthetics output
SIC_282-out	2822	Synthetic rubber	County data: Plastics materials and synthetics output
SIC_282-out	2823	Cellulosic manmade fibers	County data: Plastics materials and synthetics output
SIC_282-out	2824	Organic fibers, noncellulosic	County data: Plastics materials and synthetics output
SIC_282-out	2829	INVALID SIC	County data: Plastics materials and synthetics output
SIC_283-out	2831	OUTDATED (1977) SIC	County data: Drugs output
SIC_283-out	2833	Medicinals and botanicals	County data: Drugs output
SIC_283-out	2834	Pharmaceutical preparations	County data: Drugs output
SIC_283-out	2835	Diagnostic substances	County data: Drugs output
SIC_283-out	2836	Biological products exc. diagnostic	County data: Drugs output
SIC_283-out	2837	INVALID SIC	County data: Drugs output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_284-out	2841	Soap and other detergents	County data: Soap, cleaners, and toilet goods output
SIC_284-out	2842	Polishes and sanitation goods	County data: Soap, cleaners, and toilet goods output
SIC_284-out	2843	Surface active agents	County data: Soap, cleaners, and toilet goods output
SIC_284-out	2844	Toilet preparations	County data: Soap, cleaners, and toilet goods output
SIC_285-out	2850	Paints and Allied Products	County data: Paints and allied products output
SIC_285-out	2851	Paints and allied products	County data: Paints and allied products output
SIC_281&6out	2861	Gum and wood chemicals	County data: Industrial chemicals output
SIC_281&6out	2865	Cyclic crudes and intermediates	County data: Industrial chemicals output
SIC_281&6out	2869	Industrial organic chemicals, nec	County data: Industrial chemicals output
SIC_287-out	2873	Nitrogenous fertilizers	County data: Agricultural chemicals output
SIC_287-out	2874	Phosphatic fertilizers	County data: Agricultural chemicals output
SIC_287-out	2875	Fertilizers, mixing only	County data: Agricultural chemicals output
SIC_287-out	2879	Agricultural chemicals, nec	County data: Agricultural chemicals output
SIC_289-out	2891	Adhesives and sealants	County data: Miscellaneous chemical products output
SIC_289-out	2892	Explosives	County data: Miscellaneous chemical products output
SIC_289-out	2893	Printing ink	County data: Miscellaneous chemical products output
SIC_289-out	2895	Carbon black	County data: Miscellaneous chemical products output
SIC_289-out	2899	Chemical preparations, nec	County data: Miscellaneous chemical products output
SIC_291-out	2911	Petroleum refining	County data: Petroleum refining output
SIC_295&9out	2951	Asphalt paving mixtures and blocks	County data: Misc. petroleum and coal products output
SIC_295&9out	2952	Asphalt felts and coatings	County data: Misc. petroleum and coal products output
SIC_295&9out	2953	INVALID SIC	County data: Misc. petroleum and coal products output
SIC_295&9out	2992	Lubricating oils and greases	County data: Misc. petroleum and coal products output
SIC_295&9out	2999	Petroleum and coal products, nec	County data: Misc. petroleum and coal products output
SIC_301-out	3011	Tires and inner tubes	County data: Tires and inner tubes output
SIC_302+-out	3021	Rubber and plastics footwear	County data: Rubber prods & plastic hose & footwear output
SIC_302+-out	3052	Rubber & plastics hose & belting	County data: Rubber prods & plastic hose & footwear output
SIC_302+-out	3053	Gaskets, packing and sealing devices	County data: Rubber prods & plastic hose & footwear output
SIC_302+-out	3061	Mechanical rubber goods	County data: Rubber prods & plastic hose & footwear output
SIC_302+-out	3069	Fabricated rubber products, nec	County data: Rubber prods & plastic hose & footwear output
SIC_30-out	3076	INVALID SIC	County data: Rubber output
SIC_30-out	3079	OUTDATED (1977) SIC	County data: Rubber output
SIC_308-out	3081	Unsupported plastics film & sheet	County data: Miscellaneous plastics products, nec output
SIC_308-out	3082	Unsupported plastics profile shapes	County data: Miscellaneous plastics products, nec output
SIC_308-out	3083	Laminated plastics plate & sheet	County data: Miscellaneous plastics products, nec output
SIC_308-out	3084	Plastics pipe	County data: Miscellaneous plastics products, nec output
SIC_308-out	3085	Plastics bottles	County data: Miscellaneous plastics products, nec output
SIC_308-out	3086	Plastics foam products	County data: Miscellaneous plastics products, nec output
SIC_308-out	3087	Custom compound purchased resins	County data: Miscellaneous plastics products, nec output
SIC_308-out	3088	Plastics plumbing fixtures	County data: Miscellaneous plastics products, nec output
SIC_308-out	3089	Plastics products, nec	County data: Miscellaneous plastics products, nec output
SIC_311+-out	3110	Leather tanning and finishing	County data: Luggage, handbags, & leath prods, nec output
SIC_311+-out	3111	Leather Tanning and Finishing	County data: Luggage, handbags, & leath prods, nec output
SIC_313&4out	3131	Footwear cut stock	County data: Footwear, except rubber and plastic output
SIC_313&4out	3142	House slippers	County data: Footwear, except rubber and plastic output
SIC_313&4out	3143	Men's footwear, except athletic	County data: Footwear, except rubber and plastic output
SIC_313&4out	3144	Women's footwear, except athletic	County data: Footwear, except rubber and plastic output
SIC_313&4out	3149	Footwear, except rubber, nec	County data: Footwear, except rubber and plastic output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_311+out	3151	Leather gloves and mittens	County data: Luggage, handbags, & leath prods, nec output
SIC_311+out	3157	INVALID SIC	County data: Luggage, handbags, & leath prods, nec output
SIC_311+out	3161	Luggage	County data: Luggage, handbags, & leath prods, nec output
SIC_311+out	3171	Women's handbags and purses	County data: Luggage, handbags, & leath prods, nec output
SIC_311+out	3172	Personal leather goods, nec	County data: Luggage, handbags, & leath prods, nec output
SIC_311+out	3199	Leather goods, nec	County data: Luggage, handbags, & leath prods, nec output
SIC_321+out	3211	Flat glass	County data: Glass and glass products output
SIC_321+out	3221	Glass containers	County data: Glass and glass products output
SIC_321+out	3229	Pressed and blown glass, nec	County data: Glass and glass products output
SIC_321+out	3231	Products of purchased glass	County data: Glass and glass products output
SIC_324+out	3241	Cement, hydraulic	County data: Hydraulic cement output
SIC_325+out	3251	Brick and structural clay tile	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3253	Ceramic wall and floor tile	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3255	Clay refractories	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3259	Structural clay products, nec	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3261	Vitreous plumbing fixtures	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3262	Vitreous china table & kitchenware	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3263	Semivitreous table & kitchenware	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3264	Porcelain electrical supplies	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3269	Pottery products, nec	County data: Stone, clay, & misc. mineral products output
SIC_327+out	3271	Concrete block and brick	County data: Concrete, gypsum, & plaster products output
SIC_327+out	3272	Concrete products, nec	County data: Concrete, gypsum, & plaster products output
SIC_327+out	3273	Ready-mixed concrete	County data: Concrete, gypsum, & plaster products output
SIC_327+out	3274	Lime	County data: Concrete, gypsum, & plaster products output
SIC_327+out	3275	Gypsum products	County data: Concrete, gypsum, & plaster products output
SIC_325+out	3281	Cut stone and stone products	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3291	Abrasive products	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3292	Asbestos products	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3295	Minerals, ground or treated	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3296	Mineral wool	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3297	Nonclay refractories	County data: Stone, clay, & misc. mineral products output
SIC_325+out	3299	Nonmetallic mineral products, nec	County data: Stone, clay, & misc. mineral products output
SIC_331+out	3312	Blast furnaces and steel mills	County data: Blast furnaces & basic steel products output
SIC_331+out	3313	Electrometallurgical products	County data: Blast furnaces & basic steel products output
SIC_331+out	3315	Steel wire and related products	County data: Blast furnaces & basic steel products output
SIC_331+out	3316	Cold finishing of steel shapes	County data: Blast furnaces & basic steel products output
SIC_331+out	3317	Steel pipe and tubes	County data: Blast furnaces & basic steel products output
SIC_332+out	3321	Gray and ductile iron foundries	County data: Iron and steel foundries output
SIC_332+out	3322	Malleable iron foundries	County data: Iron and steel foundries output
SIC_332+out	3324	Steel investment foundries	County data: Iron and steel foundries output
SIC_332+out	3325	Steel foundries, nec	County data: Iron and steel foundries output
SIC_333+out	3331	Primary copper	County data: Primary nonferrous smelting & refining output
SIC_333+out	3334	Primary aluminum	County data: Primary nonferrous smelting & refining output
SIC_333+out	3339	Primary nonferrous metals, nec	County data: Primary nonferrous smelting & refining output
SIC_334&9out	3340	Secondary Nonferrous Metals	County data: Secdry nonferr & misc primary metal output
SIC_334&9out	3341	Secondary nonferrous metals	County data: Secdry nonferr & misc primary metal output
SIC_335+out	3351	Copper rolling and drawing	County data: Nonferrous rolling and drawing output
SIC_335+out	3353	Aluminum sheet, plate, and foil	County data: Nonferrous rolling and drawing output
SIC_335+out	3354	Aluminum, extruded products	County data: Nonferrous rolling and drawing output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_335-out	3355	Aluminum rolling and drawing, nec	County data: Nonferrous rolling and drawing output
SIC_335-out	3356	Nonferrous rolling and drawing, nec	County data: Nonferrous rolling and drawing output
SIC_335-out	3357	Nonferrous wire drawing & insulating	County data: Nonferrous rolling and drawing output
SIC_336-out	3361	OUTDATED (1977) SIC	County data: Nonferrous foundries output
SIC_336-out	3363	Aluminum die-castings	County data: Nonferrous foundries output
SIC_336-out	3364	Nonferrous die-casting exc. aluminum	County data: Nonferrous foundries output
SIC_336-out	3365	Aluminum foundries	County data: Nonferrous foundries output
SIC_336-out	3366	Copper foundries	County data: Nonferrous foundries output
SIC_336-out	3369	Nonferrous foundries, nec	County data: Nonferrous foundries output
SIC_334&9out	3398	Metal heat treating	County data: Secdry nonferr & misc primary metal output
SIC_334&9out	3399	Primary metal products, nec	County data: Secdry nonferr & misc primary metal output
SIC_341-out	3411	Metal cans	County data: Metal cans and shipping containers output
SIC_341-out	3412	Metal barrels, drums, and pails	County data: Metal cans and shipping containers output
SIC_342-out	3421	Cutlery	County data: Cutlery, hand tools, and hardware output
SIC_342-out	3423	Hand and edge tools, nec	County data: Cutlery, hand tools, and hardware output
SIC_342-out	3425	Saw blades and handsaws	County data: Cutlery, hand tools, and hardware output
SIC_342-out	3429	Hardware, nec	County data: Cutlery, hand tools, and hardware output
SIC_343-out	3431	Metal sanitary ware	County data: Plumbing & nonelectric heating equip output
SIC_343-out	3432	Plumbing fixture fittings and trim	County data: Plumbing & nonelectric heating equip output
SIC_343-out	3433	Heating equipment, except electric	County data: Plumbing & nonelectric heating equip output
SIC_344-out	3441	Fabricated structural metal	County data: Fabricated structural metal products output
SIC_344-out	3442	Metal doors, sash, and trim	County data: Fabricated structural metal products output
SIC_344-out	3443	Fabricated plate work (boiler shops)	County data: Fabricated structural metal products output
SIC_344-out	3444	Sheet metal work	County data: Fabricated structural metal products output
SIC_344-out	3446	Architectural metal work	County data: Fabricated structural metal products output
SIC_344-out	3448	Prefabricated metal buildings	County data: Fabricated structural metal products output
SIC_344-out	3449	Miscellaneous metal work	County data: Fabricated structural metal products output
SIC_345-out	3450	Screw Machine Products, Bolts, Etc.	County data: Screw machine prods, bolts, rivets, etc output
SIC_345-out	3451	Screw machine products	County data: Screw machine prods, bolts, rivets, etc output
SIC_345-out	3452	Bolts, nuts, rivets, and washers	County data: Screw machine prods, bolts, rivets, etc output
SIC_346-out	3462	Iron and steel forgings	County data: Metal forgings and stampings output
SIC_346-out	3463	Nonferrous forgings	County data: Metal forgings and stampings output
SIC_346-out	3465	Automotive stampings	County data: Metal forgings and stampings output
SIC_346-out	3466	Crowns and closures	County data: Metal forgings and stampings output
SIC_346-out	3469	Metal stampings, nec	County data: Metal forgings and stampings output
SIC_347-out	3471	Plating and polishing	County data: Metal coating, engraving, & allied serv output
SIC_347-out	3479	Metal coating and allied services	County data: Metal coating, engraving, & allied serv output
SIC_348-out	3482	Small arms ammunition	County data: Ordnance and ammunition output
SIC_348-out	3483	Ammunition, exc. for small arms, nec	County data: Ordnance and ammunition output
SIC_348-out	3484	Small arms	County data: Ordnance and ammunition output
SIC_348-out	3489	Ordnance and accessories, nec	County data: Ordnance and ammunition output
SIC_349-out	3491	Industrial valves	County data: Misc. fabricated metal products output
SIC_349-out	3492	Fluid power valves & hose fittings	County data: Misc. fabricated metal products output
SIC_349-out	3493	Steel springs, except wire	County data: Misc. fabricated metal products output
SIC_349-out	3494	Valves and pipe fittings, nec	County data: Misc. fabricated metal products output
SIC_349-out	3495	Wire springs	County data: Misc. fabricated metal products output
SIC_349-out	3496	Misc. fabricated wire products	County data: Misc. fabricated metal products output
SIC_349-out	3497	Metal foil and leaf	County data: Misc. fabricated metal products output
SIC_349-out	3498	Fabricated pipe and fittings	County data: Misc. fabricated metal products output
SIC_349-out	3499	Fabricated metal products, nec	County data: Misc. fabricated metal products output
SIC_351-out	3511	Turbines and turbine generator sets	County data: Engines and turbines output
SIC_351-out	3519	Internal combustion engines, nec	County data: Engines and turbines output
SIC_352-out	3523	Farm machinery and equipment	County data: Farm & garden machinery & equip output
SIC_352-out	3524	Lawn and garden equipment	County data: Farm & garden machinery & equip output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_353-out	3531	Construction machinery	County data: Construction & related machinery output
SIC_353-out	3532	Mining machinery	County data: Construction & related machinery output
SIC_353-out	3533	Oil and gas field machinery	County data: Construction & related machinery output
SIC_353-out	3534	Elevators and moving stairways	County data: Construction & related machinery output
SIC_353-out	3535	Conveyors and conveying equipment	County data: Construction & related machinery output
SIC_353-out	3536	Hoists, cranes, and monorails	County data: Construction & related machinery output
SIC_353-out	3537	Industrial trucks and tractors	County data: Construction & related machinery output
SIC_354-out	3541	Machine tools, metal cutting types	County data: Metalworking machinery & equipment output
SIC_354-out	3542	Machine tools, metal forming types	County data: Metalworking machinery & equipment output
SIC_354-out	3543	Industrial patterns	County data: Metalworking machinery & equipment output
SIC_354-out	3544	Special dies, tools, jigs & fixtures	County data: Metalworking machinery & equipment output
SIC_354-out	3545	Machine tool accessories	County data: Metalworking machinery & equipment output
SIC_354-out	3546	Power-driven handtools	County data: Metalworking machinery & equipment output
SIC_354-out	3547	Rolling mill machinery	County data: Metalworking machinery & equipment output
SIC_354-out	3548	Welding apparatus	County data: Metalworking machinery & equipment output
SIC_354-out	3549	Metalworking machinery, nec	County data: Metalworking machinery & equipment output
SIC_355-out	3551	OUTDATED (1977) SIC	County data: Special industry machinery output
SIC_355-out	3552	Textile machinery	County data: Special industry machinery output
SIC_355-out	3553	Woodworking machinery	County data: Special industry machinery output
SIC_355-out	3554	Paper industries machinery	County data: Special industry machinery output
SIC_355-out	3555	Printing trades machinery	County data: Special industry machinery output
SIC_355-out	3556	Food products machinery	County data: Special industry machinery output
SIC_355-out	3559	Special industry machinery, nec	County data: Special industry machinery output
SIC_356-out	3561	Pumps and pumping equipment	County data: Genl industrial machinery & equip output
SIC_356-out	3562	Ball and roller bearings	County data: Genl industrial machinery & equip output
SIC_356-out	3563	Air and gas compressors	County data: Genl industrial machinery & equip output
SIC_356-out	3564	Blowers and fans	County data: Genl industrial machinery & equip output
SIC_356-out	3565	Packaging machinery	County data: Genl industrial machinery & equip output
SIC_356-out	3566	Speed changers, drives, and gears	County data: Genl industrial machinery & equip output
SIC_356-out	3567	Industrial furnaces and ovens	County data: Genl industrial machinery & equip output
SIC_356-out	3568	Power transmission equipment, nec	County data: Genl industrial machinery & equip output
SIC_356-out	3569	General industrial machinery, nec	County data: Genl industrial machinery & equip output
SIC_357-out	3571	Electronic computers	County data: Computer and office equipment output
SIC_357-out	3572	Computer storage devices	County data: Computer and office equipment output
SIC_357-out	3573	OUTDATED (1977) SIC	County data: Computer and office equipment output
SIC_357-out	3575	Computer terminals	County data: Computer and office equipment output
SIC_357-out	3577	Computer peripheral equipment, nec	County data: Computer and office equipment output
SIC_357-out	3578	Calculating and accounting equipment	County data: Computer and office equipment output
SIC_357-out	3579	Office machines, nec	County data: Computer and office equipment output
SIC_358-out	3581	Automatic vending machines	County data: Refrig. & service industry machinery output
SIC_358-out	3582	Commercial laundry equipment	County data: Refrig. & service industry machinery output
SIC_358-out	3585	Refrigeration and heating equipment	County data: Refrig. & service industry machinery output
SIC_358-out	3586	Measuring and dispensing pumps	County data: Refrig. & service industry machinery output
SIC_358-out	3589	Service industry machinery, nec	County data: Refrig. & service industry machinery output
SIC_359-out	3592	Carburetors, pistons, rings, valves	County data: Industrial machinery, nec output
SIC_359-out	3593	Fluid power cylinders & actuators	County data: Industrial machinery, nec output
SIC_359-out	3594	Fluid power pumps and motors	County data: Industrial machinery, nec output
SIC_359-out	3596	Scales and balances, exc. laboratory	County data: Industrial machinery, nec output
SIC_359-out	3599	Industrial machinery, nec	County data: Industrial machinery, nec output
SIC_361-out	3612	Transformers, except electronic	County data: Electric distribution equipment output
SIC_361-out	3613	Switchgear and switchboard apparatus	County data: Electric distribution equipment output
SIC_362-out	3621	Motors and generators	County data: Electrical industrial apparatus output
SIC_362-out	3624	Carbon and graphite products	County data: Electrical industrial apparatus output
SIC_362-out	3625	Relays and industrial controls	County data: Electrical industrial apparatus output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_362-out	3629	Electrical industrial apparatus, nec	County data: Electrical industrial apparatus output
SIC_363-out	3631	Household cooking equipment	County data: Household appliances output
SIC_363-out	3632	Household refrigerators and freezers	County data: Household appliances output
SIC_363-out	3633	Household laundry equipment	County data: Household appliances output
SIC_363-out	3634	Electric housewares and fans	County data: Household appliances output
SIC_363-out	3635	Household vacuum cleaners	County data: Household appliances output
SIC_363-out	3639	Household appliances, nec	County data: Household appliances output
SIC_364-out	3641	Electric lamps	County data: Electric lighting & wiring equipment output
SIC_364-out	3643	Current-carrying wiring devices	County data: Electric lighting & wiring equipment output
SIC_364-out	3644	Noncurrent-carrying wiring devices	County data: Electric lighting & wiring equipment output
SIC_364-out	3645	Residential lighting fixtures	County data: Electric lighting & wiring equipment output
SIC_364-out	3646	Commercial lighting fixtures	County data: Electric lighting & wiring equipment output
SIC_364-out	3647	Vehicular lighting equipment	County data: Electric lighting & wiring equipment output
SIC_364-out	3648	Lighting equipment, nec	County data: Electric lighting & wiring equipment output
SIC_365-out	3651	Household audio and video equipment	County data: Household audio & video equipment output
SIC_365-out	3652	Prerecorded records and tapes	County data: Household audio & video equipment output
SIC_366-out	3661	Telephone and telegraph apparatus	County data: Communications equipment output
SIC_366-out	3662	OUTDATED (1977) SIC	County data: Communications equipment output
SIC_366-out	3663	Radio & TV communications equipment	County data: Communications equipment output
SIC_366-out	3665	INVALID SIC	County data: Communications equipment output
SIC_366-out	3669	Communications equipment, nec	County data: Communications equipment output
SIC_367-out	3670	Electronic Components and Accessories	County data: Electronic components & accessories output
SIC_367-out	3671	Electron tubes	County data: Electronic components & accessories output
SIC_367-out	3672	Printed circuit boards	County data: Electronic components & accessories output
SIC_367-out	3673	OUTDATED (1977) SIC	County data: Electronic components & accessories output
SIC_367-out	3674	Semiconductors and related devices	County data: Electronic components & accessories output
SIC_367-out	3675	Electronic capacitors	County data: Electronic components & accessories output
SIC_367-out	3676	Electronic resistors	County data: Electronic components & accessories output
SIC_367-out	3677	Electronic coils and transformers	County data: Electronic components & accessories output
SIC_367-out	3678	Electronic connectors	County data: Electronic components & accessories output
SIC_367-out	3679	Electronic components, nec	County data: Electronic components & accessories output
SIC_36-out	3681	INVALID SIC	County data: Electronic & other electric equipment output
SIC_369-out	3690	Misc. Electrical Equipment & Supplies	County data: Miscellaneous electrical equipment output
SIC_369-out	3691	Storage batteries	County data: Miscellaneous electrical equipment output
SIC_369-out	3692	Primary batteries, dry and wet	County data: Miscellaneous electrical equipment output
SIC_369-out	3694	Engine electrical equipment	County data: Miscellaneous electrical equipment output
SIC_369-out	3695	Magnetic and optical recording media	County data: Miscellaneous electrical equipment output
SIC_369-out	3699	Electrical equipment & supplies, nec	County data: Miscellaneous electrical equipment output
SIC_371-out	3711	Motor vehicles and car bodies	County data: Motor vehicles output
SIC_371-out	3713	Truck and bus bodies	County data: Motor vehicles output
SIC_371-out	3714	Motor vehicle parts and accessories	County data: Motor vehicles output
SIC_371-out	3715	Truck trailers	County data: Motor vehicles output
SIC_371-out	3716	Motor homes	County data: Motor vehicles output
SIC_372&6out	3720	Aircraft and Parts	County data: Aerospace output
SIC_372&6out	3721	Aircraft	County data: Aerospace output
SIC_372&6out	3724	Aircraft engines and engine parts	County data: Aerospace output
SIC_372&6out	3728	Aircraft parts and equipment, nec	County data: Aerospace output
SIC_373-out	3731	Ship building and repairing	County data: Ship and boat building and repairing output
SIC_373-out	3732	Boat building and repairing	County data: Ship and boat building and repairing output
SIC_374-out	3743	Railroad equipment	County data: Railroad equipment output
SIC_375&9out	3751	Motorcycles, bicycles, and parts	County data: Misc. transportation equipment output
SIC_372&6out	3761	Guided missiles and space vehicles	County data: Aerospace output
SIC_372&6out	3764	Space propulsion units and parts	County data: Aerospace output
SIC_372&6out	3769	Space vehicle equipment, nec	County data: Aerospace output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_375&9out	3792	Travel trailers and campers	County data: Misc. transportation equipment output
SIC_375&9out	3795	Tanks and tank components	County data: Misc. transportation equipment output
SIC_375&9out	3799	Transportation equipment, nec	County data: Misc. transportation equipment output
SIC_381-out	3811	OUTDATED (1977) SIC	County data: Search and navigation equipment output
SIC_381-out	3812	Search and navigation equipment	County data: Search and navigation equipment output
SIC_382-out	3821	Laboratory apparatus and furniture	County data: Measuring and controlling devices output
SIC_382-out	3822	Environmental controls	County data: Measuring and controlling devices output
SIC_382-out	3823	Process control instruments	County data: Measuring and controlling devices output
SIC_382-out	3824	Fluid meters and counting devices	County data: Measuring and controlling devices output
SIC_382-out	3825	Instruments to measure electricity	County data: Measuring and controlling devices output
SIC_382-out	3826	Analytical instruments	County data: Measuring and controlling devices output
SIC_382-out	3827	Optical instruments and lenses	County data: Measuring and controlling devices output
SIC_382-out	3829	Measuring & controlling devices, nec	County data: Measuring and controlling devices output
SIC_38-out	3834	INVALID SIC	County data: Instruments output
SIC_384-out	3841	Surgical and medical instruments	County data: Medical equip, instruments & supplies output
SIC_384-out	3842	Surgical appliances and supplies	County data: Medical equip, instruments & supplies output
SIC_384-out	3843	Dental equipment and supplies	County data: Medical equip, instruments & supplies output
SIC_384-out	3844	X-ray apparatus and tubes	County data: Medical equip, instruments & supplies output
SIC_384-out	3845	Electromedical equipment	County data: Medical equip, instruments & supplies output
SIC_385-out	3851	Ophthalmic goods	County data: Ophthalmic goods output
SIC_386-out	3861	Photographic equipment and supplies	County data: Photographic equipment & supplies output
SIC_387-out	3872	INVALID SIC	County data: Watches, clocks, and parts output
SIC_387-out	3873	Watches, clocks, watchcases & parts	County data: Watches, clocks, and parts output
SIC_391-out	3911	Jewelry, precious metal	County data: Jewelry, silverware, and plated ware output
SIC_391-out	3914	Silverware and plate ware	County data: Jewelry, silverware, and plated ware output
SIC_391-out	3915	Jewelers' materials & lapidary work	County data: Jewelry, silverware, and plated ware output
SIC_393+out	3930	Musical Instruments	County data: Manufactured products, nec output
SIC_393+out	3931	Musical instruments	County data: Manufactured products, nec output
SIC_394-out	3942	Dolls and stuffed toys	County data: Toys and sporting goods output
SIC_394-out	3944	Games, toys, and children's vehicles	County data: Toys and sporting goods output
SIC_394-out	3949	Sporting and athletic goods, nec	County data: Toys and sporting goods output
SIC_393+out	3951	Pens and mechanical pencils	County data: Manufactured products, nec output
SIC_393+out	3952	Lead pencils and art goods	County data: Manufactured products, nec output
SIC_393+out	3953	Marking devices	County data: Manufactured products, nec output
SIC_393+out	3955	Carbon paper and inked ribbons	County data: Manufactured products, nec output
SIC_393+out	3961	Costume jewelry	County data: Manufactured products, nec output
SIC_393+out	3965	Fasteners, buttons, needles, & pins	County data: Manufactured products, nec output
SIC_39-out	3970	INVALID SIC	County data: Miscellaneous manufacturing output
SIC_393+out	3991	Brooms and brushes	County data: Manufactured products, nec output
SIC_393+out	3993	Signs and advertising specialties	County data: Manufactured products, nec output
SIC_393+out	3995	Burial caskets	County data: Manufactured products, nec output
SIC_393+out	3996	Hard surface floor coverings, nec	County data: Manufactured products, nec output
SIC_393+out	3999	Manufacturing industries, nec	County data: Manufactured products, nec output
SIC_40-out	4011	Railroads, line-haul operating	County data: Railroad output
SIC_40-out	4013	Switching and terminal services	County data: Railroad output
SIC_40-out	4032	INVALID SIC	County data: Railroad output
SIC_41-out	4100	Local and Interurban Passenger Transit	County data: Local & interurban passenger transit output
SIC_41-out	4111	Local and suburban transit	County data: Local & interurban passenger transit output
SIC_41-out	4119	Local passenger transportation, nec	County data: Local & interurban passenger transit output
SIC_41-out	4121	Taxicabs	County data: Local & interurban passenger transit output
SIC_41-out	4131	Intercity & rural bus transportation	County data: Local & interurban passenger transit output
SIC_41-out	4141	Local bus service, except local	County data: Local & interurban passenger transit output
SIC_41-out	4142	Bus charter service, except local	County data: Local & interurban passenger transit output
SIC_41-out	4151	School buses	County data: Local & interurban passenger transit output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_41-out	4153	INVALID SIC	County data: Local & interurban passenger transit output
SIC_41-out	4172	OUTDATED (1977) SIC	County data: Local & interurban passenger transit output
SIC_41-out	4173	Bus terminal and service facilities	County data: Local & interurban passenger transit output
SIC_42-out	4212	Local trucking, without storage	County data: Trucking and warehousing output
SIC_42-out	4213	Trucking, except local	County data: Trucking and warehousing output
SIC_42-out	4214	Local trucking with storage	County data: Trucking and warehousing output
SIC_42-out	4215	Courier services, except by air	County data: Trucking and warehousing output
SIC_42-out	4221	Farm product warehousing and storage	County data: Trucking and warehousing output
SIC_42-out	4222	Refrigerated warehousing and storage	County data: Trucking and warehousing output
SIC_42-out	4225	General warehousing and storage	County data: Trucking and warehousing output
SIC_42-out	4226	Special warehousing and storage, nec	County data: Trucking and warehousing output
SIC_42-out	4231	Trucking terminal facilities	County data: Trucking and warehousing output
POSTAL	4300	U.S. Postal Service	County data: Postal clerks and mail carriers (number)
POSTAL	4311	U.S. Postal Service	County data: Postal clerks and mail carriers (number)
POSTAL	4353	INVALID SIC	County data: Postal clerks and mail carriers (number)
POSTAL	4392	INVALID SIC	County data: Postal clerks and mail carriers (number)
SIC_44-out	4411	OUTDATED (1977) SIC	County data: Water transportation output
SIC_44-out	4412	Deep sea foreign trans. of freight	County data: Water transportation output
SIC_44-out	4424	Deep sea domestic trans. of freight	County data: Water transportation output
SIC_44-out	4432	Freight trans. on the Great Lakes	County data: Water transportation output
SIC_44-out	4449	Water transportation of freight, nec	County data: Water transportation output
SIC_44-out	4463	OUTDATED (1977) SIC	County data: Water transportation output
SIC_44-out	4481	Deep sea passenger trans., ex. ferry	County data: Water transportation output
SIC_44-out	4482	Ferries	County data: Water transportation output
SIC_44-out	4489	Water passenger transportation, nec	County data: Water transportation output
SIC_44-out	4491	Marine cargo handling	County data: Water transportation output
SIC_44-out	4492	Towing and tugboat service	County data: Water transportation output
SIC_44-out	4493	Marinas	County data: Water transportation output
SIC_44-out	4499	Water transportation services, nec	County data: Water transportation output
SIC_45-out	4510	Air Transportation, Scheduled	County data: Air transportation output
SIC_45-out	4512	Air transportation, scheduled	County data: Air transportation output
SIC_45-out	4513	Air courier services	County data: Air transportation output
SIC_45-out	4522	Air transportation, nonscheduled	County data: Air transportation output
SIC_45-out	4581	Airports, flying fields, & services	County data: Air transportation output
SIC_45-out	4582	OUTDATED (1977) SIC	County data: Air transportation output
SIC_46-out	4612	Crude petroleum pipelines	County data: Pipelines, except natural gas output
SIC_46-out	4613	Refined petroleum pipelines	County data: Pipelines, except natural gas output
SIC_46-out	4619	Pipelines, nec	County data: Pipelines, except natural gas output
SIC_472-out	4724	Travel agencies	County data: Passenger transportation arrangement output
SIC_472-out	4725	Tour operators	County data: Passenger transportation arrangement output
SIC_472-out	4729	Passenger transport arrangement, nec	County data: Passenger transportation arrangement output
SIC_473+-out	4731	Freight transportation arrangement	County data: Miscellaneous transportation services output
SIC_473+-out	4741	Rental of railroad cars	County data: Miscellaneous transportation services output
SIC_473+-out	4742	OUTDATED (1977) SIC	County data: Miscellaneous transportation services output
SIC_473+-out	4783	Packing and crating	County data: Miscellaneous transportation services output
SIC_473+-out	4785	Inspection & fixed facilities	County data: Miscellaneous transportation services output
SIC_473+-out	4789	Transportation services, nec	County data: Miscellaneous transportation services output
SIC_48-out	4810	Telephone Communications	County data: Communications output
SIC_48-out	4812	Radiotelephone communications	County data: Communications output
SIC_48-out	4813	Telephone communications, exc. radio	County data: Communications output
SIC_48-out	4822	Telegraph & other communications	County data: Communications output
SIC_48-out	4832	Radio broadcasting stations	County data: Communications output
SIC_48-out	4833	Television broadcasting stations	County data: Communications output
SIC_48-out	4841	Cable and other pay TV services	County data: Communications output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_48-out	4899	Communications services, nec	County data: Communications output
TOTAL_UTIL	4911	Electric services	Total utility fuel use from CEC, EIA, & regress- SIC_491&3out
SIC_492&3out	4922	Natural gas transmission	County data: Gas utilities output
SIC_492&3out	4923	Gas transmission and distribution	County data: Gas utilities output
SIC_492&3out	4924	Natural gas distribution	County data: Gas utilities output
SIC_492&3out	4925	Gas production and/or distribution	County data: Gas utilities output
TOTAL_UTIL	4931	Electric and other services combined	Total utility fuel use from CEC, EIA, & regress- SIC_491&3out
SIC_492&3out	4932	Gas and other services combined	County data: Gas utilities output
SIC_491&3out	4939	Combination utilities, nec	County data: Electric utilities output
SIC_494+out	4941	Water supply	County data: Water and sanitation output
SIC_494+out	4952	Sewerage systems	County data: Water and sanitation output
SIC_494+out	4953	Refuse systems	County data: Water and sanitation output
SIC_494+out	4956	INVALID SIC	County data: Water and sanitation output
SIC_494+out	4959	Sanitary services, nec	County data: Water and sanitation output
SIC_494+out	4961	Steam and air-conditioning supply	County data: Water and sanitation output
SIC_494+out	4971	Irrigation systems	County data: Water and sanitation output
SIC_50&1-out	5012	Automobiles and other motor vehicles	County data: Wholesale trade output
SIC_50&1-out	5013	Motor vehicle supplies and new parts	County data: Wholesale trade output
SIC_50&1-out	5014	Tires and tubes	County data: Wholesale trade output
SIC_50&1-out	5015	Motor vehicle parts, used	County data: Wholesale trade output
SIC_50&1-out	5021	Furniture	County data: Wholesale trade output
SIC_50&1-out	5023	Homefurnishings	County data: Wholesale trade output
SIC_50&1-out	5031	Lumber, plywood, and millwork	County data: Wholesale trade output
SIC_50&1-out	5032	Brick, stone, & related materials	County data: Wholesale trade output
SIC_50&1-out	5033	Roofing, siding, & insulation	County data: Wholesale trade output
SIC_50&1-out	5039	Construction materials, nec	County data: Wholesale trade output
SIC_50&1-out	5043	Photographic equipment and supplies	County data: Wholesale trade output
SIC_50&1-out	5044	Office equipment	County data: Wholesale trade output
SIC_50&1-out	5045	Computers, peripherals & software	County data: Wholesale trade output
SIC_50&1-out	5046	Commercial equipment, nec	County data: Wholesale trade output
SIC_50&1-out	5047	Medical and hospital equipment	County data: Wholesale trade output
SIC_50&1-out	5048	Ophthalmic goods	County data: Wholesale trade output
SIC_50&1-out	5049	Professional equipment, nec	County data: Wholesale trade output
SIC_50&1-out	5051	Metals service centers and offices	County data: Wholesale trade output
SIC_50&1-out	5052	Coal and other minerals and ores	County data: Wholesale trade output
SIC_50&1-out	5063	Electrical apparatus and equipment	County data: Wholesale trade output
SIC_50&1-out	5064	Electrical appliances, TV & radios	County data: Wholesale trade output
SIC_50&1-out	5065	Electronic parts and equipment	County data: Wholesale trade output
SIC_50&1-out	5072	Hardware	County data: Wholesale trade output
SIC_50&1-out	5074	Plumbing & hydronic heating supplies	County data: Wholesale trade output
SIC_50&1-out	5075	Warm air heating & air-conditioning	County data: Wholesale trade output
SIC_50&1-out	5078	Refrigeration equipment and supplies	County data: Wholesale trade output
SIC_50&1-out	5082	Construction and mining machinery	County data: Wholesale trade output
SIC_50&1-out	5083	Farm and garden machinery	County data: Wholesale trade output
SIC_50&1-out	5084	Industrial machinery and equipment	County data: Wholesale trade output
SIC_50&1-out	5085	Industrial supplies	County data: Wholesale trade output
SIC_50&1-out	5087	Service establishment equipment	County data: Wholesale trade output
SIC_50&1-out	5088	Transportation equipment & supplies	County data: Wholesale trade output
SIC_50&1-out	5091	Sporting & recreational goods	County data: Wholesale trade output
SIC_50&1-out	5092	Toys and hobby goods and supplies	County data: Wholesale trade output
SIC_50&1-out	5093	Scrap and waste materials	County data: Wholesale trade output
SIC_50&1-out	5094	Jewelry & precious stones	County data: Wholesale trade output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_50&1-out	5098	INVALID SIC	County data: Wholesale trade output
SIC_50&1-out	5099	Durable goods, nec	County data: Wholesale trade output
SIC_50&1-out	5111	Printing and writing paper	County data: Wholesale trade output
SIC_50&1-out	5112	Stationery and office supplies	County data: Wholesale trade output
SIC_50&1-out	5113	Industrial & personal service paper	County data: Wholesale trade output
SIC_50&1-out	5122	Drugs, proprietaries, and sundries	County data: Wholesale trade output
SIC_50&1-out	5131	Piece goods & notions	County data: Wholesale trade output
SIC_50&1-out	5136	Men's and boys' clothing	County data: Wholesale trade output
SIC_50&1-out	5137	Women's and children's clothing	County data: Wholesale trade output
SIC_50&1-out	5139	Footwear	County data: Wholesale trade output
SIC_50&1-out	5141	Groceries, general line	County data: Wholesale trade output
SIC_50&1-out	5142	Packaged frozen foods	County data: Wholesale trade output
SIC_50&1-out	5143	Dairy products, exc. dried or canned	County data: Wholesale trade output
SIC_50&1-out	5144	Poultry and poultry products	County data: Wholesale trade output
SIC_50&1-out	5145	Confectionery	County data: Wholesale trade output
SIC_50&1-out	5146	Fish and seafoods	County data: Wholesale trade output
SIC_50&1-out	5147	Meats and meat products	County data: Wholesale trade output
SIC_50&1-out	5148	Fresh fruits and vegetables	County data: Wholesale trade output
SIC_50&1-out	5149	Groceries and related products, nec	County data: Wholesale trade output
SIC_50&1-out	5153	Grain and field beans	County data: Wholesale trade output
SIC_50&1-out	5154	Livestock	County data: Wholesale trade output
SIC_50&1-out	5159	Farm-product raw materials, nec	County data: Wholesale trade output
SIC_50&1-out	5161	OUTDATED (1977) SIC	County data: Wholesale trade output
SIC_50&1-out	5162	Plastics materials & basic shapes	County data: Wholesale trade output
SIC_50&1-out	5169	Chemicals & allied products, nec	County data: Wholesale trade output
SIC_50&1-out	5171	Petroleum bulk stations & terminals	County data: Wholesale trade output
SIC_50&1-out	5172	Petroleum products, nec	County data: Wholesale trade output
SIC_50&1-out	5181	Beer and ale	County data: Wholesale trade output
SIC_50&1-out	5182	Wine and distilled beverages	County data: Wholesale trade output
SIC_50&1-out	5191	Farm supplies	County data: Wholesale trade output
SIC_50&1-out	5192	Books, periodicals, & newspapers	County data: Wholesale trade output
SIC_50&1-out	5193	Flowers & florists' supplies	County data: Wholesale trade output
SIC_50&1-out	5194	Tobacco and tobacco products	County data: Wholesale trade output
SIC_50&1-out	5198	Paints, varnishes, and supplies	County data: Wholesale trade output
SIC_50&1-out	5199	Nondurable goods, nec	County data: Wholesale trade output
SIC_52+-out	5211	Lumber and other building materials	County data: Rest of retail output
SIC_52+-out	5231	Paint, glass, and wallpaper stores	County data: Rest of retail output
SIC_52+-out	5251	Hardware stores	County data: Rest of retail output
SIC_52+-out	5261	Retail nurseries and garden stores	County data: Rest of retail output
SIC_52+-out	5271	Mobile home dealers	County data: Rest of retail output
SIC_52+-out	5311	Department stores	County data: Rest of retail output
SIC_52+-out	5331	Variety stores	County data: Rest of retail output
SIC_52+-out	5399	Misc. general merchandise stores	County data: Rest of retail output
SIC_52+-out	5411	Grocery stores	County data: Rest of retail output
SIC_52+-out	5421	Meat and fish markets	County data: Rest of retail output
SIC_52+-out	5431	Fruit and vegetable markets	County data: Rest of retail output
SIC_52+-out	5441	Candy, nut, and confectionery stores	County data: Rest of retail output
SIC_52+-out	5451	Dairy products stores	County data: Rest of retail output
SIC_52+-out	5461	Retail bakeries	County data: Rest of retail output
SIC_52+-out	5499	Miscellaneous food stores	County data: Rest of retail output
SIC_52+-out	5511	New and used car dealers	County data: Rest of retail output
SIC_52+-out	5521	Used car dealers	County data: Rest of retail output
SIC_52+-out	5531	Auto and home supply stores	County data: Rest of retail output
SIC_52+-out	5540	Gasoline Service Stations	County data: Rest of retail output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_52+-out	5541	Gasoline service stations	County data: Rest of retail output
SIC_52+-out	5551	Boat dealers	County data: Rest of retail output
SIC_52+-out	5561	Recreational vehicle dealers	County data: Rest of retail output
SIC_52+-out	5571	Motorcycle dealers	County data: Rest of retail output
SIC_52+-out	5599	Automotive dealers, nec	County data: Rest of retail output
SIC_52+-out	5611	Men's & boys' clothing stores	County data: Rest of retail output
SIC_52+-out	5621	Women's clothing stores	County data: Rest of retail output
SIC_52+-out	5632	Women's accessory & specialty stores	County data: Rest of retail output
SIC_52+-out	5641	Children's and infants' wear stores	County data: Rest of retail output
SIC_52+-out	5651	Family clothing stores	County data: Rest of retail output
SIC_52+-out	5661	Shoe stores	County data: Rest of retail output
SIC_52+-out	5699	Misc. apparel & accessory stores	County data: Rest of retail output
SIC_52+-out	5712	Furniture stores	County data: Rest of retail output
SIC_52+-out	5713	Floor covering stores	County data: Rest of retail output
SIC_52+-out	5714	Drapery and upholstery stores	County data: Rest of retail output
SIC_52+-out	5719	Misc. homefurnishings stores	County data: Rest of retail output
SIC_52+-out	5722	Household appliance stores	County data: Rest of retail output
SIC_52+-out	5731	Radio, TV, & electronic stores	County data: Rest of retail output
SIC_52+-out	5734	Computer and software stores	County data: Rest of retail output
SIC_52+-out	5735	Record & prerecorded tape stores	County data: Rest of retail output
SIC_52+-out	5736	Musical instrument stores	County data: Rest of retail output
SIC_58-out	5812	Eating places	County data: Eating and drinking output
SIC_58-out	5813	Drinking places	County data: Eating and drinking output
SIC_52+-out	5912	Drug stores and proprietary stores	County data: Rest of retail output
SIC_52+-out	5921	Liquor stores	County data: Rest of retail output
SIC_52+-out	5932	Used merchandise stores	County data: Rest of retail output
SIC_52+-out	5941	Sporting goods and bicycle shops	County data: Rest of retail output
SIC_52+-out	5942	Book stores	County data: Rest of retail output
SIC_52+-out	5943	Stationery stores	County data: Rest of retail output
SIC_52+-out	5944	Jewelry stores	County data: Rest of retail output
SIC_52+-out	5945	Hobby, toy, and game shops	County data: Rest of retail output
SIC_52+-out	5946	Camera & photographic supply stores	County data: Rest of retail output
SIC_52+-out	5947	Gift, novelty, and souvenir shops	County data: Rest of retail output
SIC_52+-out	5948	Luggage and leather goods stores	County data: Rest of retail output
SIC_52+-out	5949	Sewing, needlework, and piece goods	County data: Rest of retail output
SIC_52+-out	5961	Catalog and mail-order houses	County data: Rest of retail output
SIC_52+-out	5962	Merchandising machine operators	County data: Rest of retail output
SIC_52+-out	5963	Direct selling establishments	County data: Rest of retail output
SIC_52+-out	5983	Fuel oil dealers	County data: Rest of retail output
SIC_52+-out	5984	Liquefied petroleum gas dealers	County data: Rest of retail output
SIC_52+-out	5989	Fuel dealers, nec	County data: Rest of retail output
SIC_52+-out	5992	Florists	County data: Rest of retail output
SIC_52+-out	5993	Tobacco stores and stands	County data: Rest of retail output
SIC_52+-out	5994	News dealers and newsstands	County data: Rest of retail output
SIC_52+-out	5995	Optical goods stores	County data: Rest of retail output
SIC_52+-out	5999	Miscellaneous retail stores, nec	County data: Rest of retail output
SIC_60-out	6011	Federal reserve banks	County data: Depository institutions output
SIC_60-out	6019	Central reserve depository, nec	County data: Depository institutions output
SIC_60-out	6021	National commercial banks	County data: Depository institutions output
SIC_60-out	6022	State commercial banks	County data: Depository institutions output
SIC_60-out	6023	OUTDATED (1977) SIC	County data: Depository institutions output
SIC_60-out	6025	OUTDATED (1977) SIC	County data: Depository institutions output
SIC_60-out	6029	Commercial banks, nec	County data: Depository institutions output
SIC_60-out	6035	Federal savings institutions	County data: Depository institutions output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_60-out	6036	Savings institutions, except federal	County data: Depository institutions output
SIC_60-out	6061	Federal credit unions	County data: Depository institutions output
SIC_60-out	6062	State credit unions	County data: Depository institutions output
SIC_60-out	6081	Foreign bank & branches & agencies	County data: Depository institutions output
SIC_60-out	6082	Foreign trade & international banks	County data: Depository institutions output
SIC_60-out	6091	Nondeposit trust facilities	County data: Depository institutions output
SIC_60-out	6099	Functions related to deposit banking	County data: Depository institutions output
SIC_61&7-out	6111	Federal & fed.-sponsored credit	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6141	Personal credit institutions	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6153	Short-term business credit	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6159	Misc. business credit institutions	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6162	Mortgage bankers and correspondents	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6163	Loan brokers	County data: Nondepository; holding & invest offices output
SIC_62-out	6211	Security brokers and dealers	County data: Security and commodity brokers output
SIC_62-out	6221	Commodity contracts brokers, dealers	County data: Security and commodity brokers output
SIC_62-out	6231	Security and commodity exchanges	County data: Security and commodity brokers output
SIC_62-out	6282	Investment advice	County data: Security and commodity brokers output
SIC_62-out	6289	Security & commodity services, nec	County data: Security and commodity brokers output
SIC_63-out	6311	Life insurance	County data: Insurance carriers output
SIC_63-out	6321	Accident and health insurance	County data: Insurance carriers output
SIC_63-out	6324	Hospital and medical service plans	County data: Insurance carriers output
SIC_63-out	6331	Fire, marine, and casualty insurance	County data: Insurance carriers output
SIC_63-out	6351	Surety insurance	County data: Insurance carriers output
SIC_63-out	6361	Title insurance	County data: Insurance carriers output
SIC_63-out	6371	Pension, health, and welfare Funds	County data: Insurance carriers output
SIC_63-out	6399	Insurance carriers, nec	County data: Insurance carriers output
SIC_64-out	6411	Insurance agents, brokers, and service	County data: Insurance agents, brokers, & service output
SIC_65-out	6500	Real Estate	County data: Real estate output
SIC_65-out	6512	Nonresidential building operators	County data: Real estate output
SIC_65-out	6513	Apartment building operators	County data: Real estate output
SIC_65-out	6514	Dwelling operators, exc. apartments	County data: Real estate output
SIC_65-out	6515	Mobile home site operators	County data: Real estate output
SIC_65-out	6517	Railroad property lessors	County data: Real estate output
SIC_65-out	6519	Real property lessors, nec	County data: Real estate output
SIC_65-out	6531	Real estate agents and managers	County data: Real estate output
SIC_65-out	6541	Title abstract offices	County data: Real estate output
SIC_65-out	6552	Subdividers and developers, nec	County data: Real estate output
SIC_65-out	6553	Cemetery subdividers and developers	County data: Real estate output
SIC_61&7-out	6712	Bank holding companies	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6719	Holding companies, nec	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6722	Management investment, open-ended	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6723	OUTDATED (1977) SIC	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6726	Investment offices, nec	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6732	Educational, religious, etc. trusts	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6733	Trusts, nec	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6792	Oil royalty traders	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6794	Patent owners and lessors	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6798	Real estate investment trusts	County data: Nondepository; holding & invest offices output
SIC_61&7-out	6799	Investors, nec	County data: Nondepository; holding & invest offices output
SIC_70-out	7011	Hotels and motels	County data: Hotels and other lodging places output
SIC_70-out	7021	Rooming and boarding houses	County data: Hotels and other lodging places output
SIC_70-out	7032	Sporting and recreational camps	County data: Hotels and other lodging places output
SIC_70-out	7033	Trailer parks and campsites	County data: Hotels and other lodging places output
SIC_70-out	7041	Membership-basis organization hotels	County data: Hotels and other lodging places output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_721&5out	7211	Power laundries, family & commercial	County data: Laundry, cleaning, and shoe repair output
SIC_721&5out	7212	Garment pressing & cleaners' agents	County data: Laundry, cleaning, and shoe repair output
SIC_721&5out	7213	Linen supply	County data: Laundry, cleaning, and shoe repair output
SIC_721&5out	7215	Coin-operated laundries and cleaning	County data: Laundry, cleaning, and shoe repair output
SIC_721&5out	7216	Dry-cleaning plants, except rug	County data: Laundry, cleaning, and shoe repair output
SIC_721&5out	7217	Carpet and upholstery cleaning	County data: Laundry, cleaning, and shoe repair output
SIC_721&5out	7218	Industrial launderers	County data: Laundry, cleaning, and shoe repair output
SIC_721&5out	7219	Laundry and garment services, nec	County data: Laundry, cleaning, and shoe repair output
SIC_722&9out	7221	Photographic studios, portrait	County data: Personal services, nec output
SIC_723&4out	7231	Beauty shops	County data: Beauty and barber shops output
SIC_723&4out	7232	INVALID SIC	County data: Beauty and barber shops output
SIC_723&4out	7241	Barber shops	County data: Beauty and barber shops output
SIC_721&5out	7251	Shoe repair and shoeshine parlors	County data: Laundry, cleaning, and shoe repair output
SIC_726-out	7261	Funeral service and crematories	County data: Funeral service and crematories output
SIC_722&9out	7291	Tax return preparation services	County data: Personal services, nec output
SIC_722&9out	7299	Miscellaneous personal services, nec	County data: Personal services, nec output
SIC_731-out	7311	Advertising Agencies	County data: Advertising output
SIC_731-out	7312	Outdoor advertising services	County data: Advertising output
SIC_731-out	7313	Radio, TV, publisher representatives	County data: Advertising output
SIC_731-out	7316	INVALID SIC	County data: Advertising output
SIC_731-out	7319	Advertising, nec	County data: Advertising output
SIC_732+-out	7322	Adjustment & collection services	County data: Miscellaneous business services output
SIC_732+-out	7323	Credit reporting services	County data: Miscellaneous business services output
SIC_732+-out	7331	Direct mail advertising services	County data: Miscellaneous business services output
SIC_732+-out	7334	Photocopying & duplicating services	County data: Miscellaneous business services output
SIC_732+-out	7335	Commercial photography	County data: Miscellaneous business services output
SIC_732+-out	7336	Commercial art and graphic design	County data: Miscellaneous business services output
SIC_732+-out	7338	Secretarial & court reporting	County data: Miscellaneous business services output
SIC_734-out	7342	Disinfecting & pest control services	County data: Services to buildings output
SIC_734-out	7349	Building maintenance services, nec	County data: Services to buildings output
SIC_735-out	7352	Medical equipment rental	County data: Misc. equipment rental & leasing output
SIC_735-out	7353	Heavy construction equipment rental	County data: Misc. equipment rental & leasing output
SIC_735-out	7359	Equipment rental & leasing, nec	County data: Misc. equipment rental & leasing output
SIC_736-out	7361	Employment agencies	County data: Personnel supply services output
SIC_736-out	7363	Help supply services	County data: Personnel supply services output
SIC_737-out	7371	Computer programming services	County data: Computer & data processing services output
SIC_737-out	7372	Prepackaged software	County data: Computer & data processing services output
SIC_737-out	7373	Computer integrated systems design	County data: Computer & data processing services output
SIC_737-out	7374	Data processing and preparation	County data: Computer & data processing services output
SIC_737-out	7375	Information retrieval services	County data: Computer & data processing services output
SIC_737-out	7376	Computer facilities management	County data: Computer & data processing services output
SIC_737-out	7377	Computer rental & leasing	County data: Computer & data processing services output
SIC_737-out	7378	Computer maintenance & repair	County data: Computer & data processing services output
SIC_737-out	7379	Computer related services, nec	County data: Computer & data processing services output
SIC_732+-out	7381	Detective & armored car services	County data: Miscellaneous business services output
SIC_732+-out	7382	Security systems services	County data: Miscellaneous business services output
SIC_732+-out	7383	News syndicates	County data: Miscellaneous business services output
SIC_732+-out	7384	Photofinishing laboratories	County data: Miscellaneous business services output
SIC_732+-out	7389	Business services, nec	County data: Miscellaneous business services output
SIC_73-out	7391	OUTDATED (1977) SIC	County data: Business services output
SIC_73-out	7399	OUTDATED (1977) SIC	County data: Business services output
SIC_751-out	7513	Truck rental and leasing, no drivers	County data: Automotive rentals, without drivers output
SIC_751-out	7514	Passenger car rental	County data: Automotive rentals, without drivers output
SIC_751-out	7515	Passenger car leasing	County data: Automotive rentals, without drivers output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_751-out	7519	Utility trailer rental	County data: Automotive rentals, without drivers output
SIC_752-4out	7521	Automobile parking	County data: Automobile parking, repair, & services output
SIC_752-4out	7530	Automotive Repair Shops	County data: Automobile parking, repair, & services output
SIC_752-4out	7532	Top & body repair & paint shops	County data: Automobile parking, repair, & services output
SIC_752-4out	7533	Auto exhaust system repair shops	County data: Automobile parking, repair, & services output
SIC_752-4out	7534	Tire retreading and repair shops	County data: Automobile parking, repair, & services output
SIC_752-4out	7535	OUTDATED (1977) SIC	County data: Automobile parking, repair, & services output
SIC_752-4out	7536	Automotive glass replacement shops	County data: Automobile parking, repair, & services output
SIC_752-4out	7537	Automotive transmission repair shops	County data: Automobile parking, repair, & services output
SIC_752-4out	7538	General automotive repair shops	County data: Automobile parking, repair, & services output
SIC_752-4out	7539	Automotive repair shops, nec	County data: Automobile parking, repair, & services output
SIC_752-4out	7542	Carwashes	County data: Automobile parking, repair, & services output
SIC_752-4out	7549	Automotive services, nec	County data: Automobile parking, repair, & services output
SIC_72&6out	7612	INVALID SIC	County data: Personal and miscellaneous services output
SIC_762-out	7622	Radio and television repair	County data: Electrical repair shops output
SIC_762-out	7623	Refrigeration service and repair	County data: Electrical repair shops output
SIC_762-out	7629	Electrical repair shops, nec	County data: Electrical repair shops output
SIC_763-4out	7631	Watch, clock, and jewelry repair	County data: Watch, jewelry, & furniture repair output
SIC_763-4out	7641	Reupholstery and furniture repair	County data: Watch, jewelry, & furniture repair output
SIC_769-out	7692	Welding repair	County data: Miscellaneous repair services output
SIC_769-out	7694	Armature rewinding shops	County data: Miscellaneous repair services output
SIC_769-out	7699	Repair services, nec	County data: Miscellaneous repair services output
SIC_781-3out	7812	Motion picture & video production	County data: Motion pictures output
SIC_781-3out	7819	Services allied to motion pictures	County data: Motion pictures output
SIC_781-3out	7822	Motion picture and tape distribution	County data: Motion pictures output
SIC_781-3out	7829	Motion picture distribution services	County data: Motion pictures output
SIC_781-3out	7832	Motion picture theaters, exc. drive-in	County data: Motion pictures output
SIC_781-3out	7833	Drive-in motion picture theaters	County data: Motion pictures output
SIC_784-out	7841	Video tape rental	County data: Video tape rental output
SIC_791&9out	7911	Dance studios, schools, and halls	County data: Amusement & recreation services, nec output
SIC_792-out	7922	Theatrical producers and services	County data: Producers, orchestras, & entertainers output
SIC_792-out	7929	Entertainers & entertainment groups	County data: Producers, orchestras, & entertainers output
SIC_793-out	7933	Bowling centers	County data: Bowling centers output
SIC_794-out	7941	Sports clubs, managers, & promoters	County data: Commercial sports output
SIC_794-out	7948	Racing, including track operation	County data: Commercial sports output
SIC_791&9out	7991	Physical fitness facilities	County data: Amusement & recreation services, nec output
SIC_791&9out	7992	Public golf courses	County data: Amusement & recreation services, nec output
SIC_791&9out	7993	Coin-operated amusement devices	County data: Amusement & recreation services, nec output
SIC_791&9out	7996	Amusement parks	County data: Amusement & recreation services, nec output
SIC_791&9out	7997	Membership sports & recreation clubs	County data: Amusement & recreation services, nec output
SIC_791&9out	7999	Amusement and recreation, nec	County data: Amusement & recreation services, nec output
SIC_801-4out	8011	Offices & clinics of medical doctors	County data: Offices of health practitioners output
SIC_801-4out	8021	Offices and clinics of dentists	County data: Offices of health practitioners output
SIC_801-4out	8031	Offices of osteopathic physicians	County data: Offices of health practitioners output
SIC_801-4out	8041	Offices and clinics of chiropractors	County data: Offices of health practitioners output
SIC_801-4out	8042	Offices and clinics of optometrists	County data: Offices of health practitioners output
SIC_801-4out	8043	Offices and clinics of podiatrists	County data: Offices of health practitioners output
SIC_801-4out	8049	Offices of health practitioners, nec	County data: Offices of health practitioners output
SIC_805-out	8051	Skilled nursing care facilities	County data: Nursing and personal care facilities output:
SIC_805-out	8052	Intermediate care facilities	County data: Nursing and personal care facilities output:
SIC_805-out	8059	Nursing and personal care, nec	County data: Nursing and personal care facilities output:
SIC_806-out	8062	General medical & surgical hospitals	County data: Hospitals output
SIC_806-out	8063	Psychiatric hospitals	County data: Hospitals output
SIC_806-out	8069	Specialty hospitals exc. psychiatric	County data: Hospitals output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_807-9out	8071	Medical laboratories	County data: Health services, nec output
SIC_807-9out	8072	Dental laboratories	County data: Health services, nec output
SIC_807-9out	8082	Home health care services	County data: Health services, nec output
SIC_807-9out	8092	Kidney dialysis centers	County data: Health services, nec output
SIC_807-9out	8093	Specialty outpatient clinics, nec	County data: Health services, nec output
SIC_807-9out	8099	Health and allied services, nec	County data: Health services, nec output
SIC_81-out	8111	Legal services	County data: Legal services output
SIC_82-out	8211	Elementary and secondary schools	County data: Educational services output
SIC_82-out	8221	Colleges and universities	County data: Educational services output
SIC_82-out	8222	Junior colleges	County data: Educational services output
SIC_82-out	8231	Libraries	County data: Educational services output
SIC_82-out	8243	Data processing schools	County data: Educational services output
SIC_82-out	8244	Business and secretarial schools	County data: Educational services output
SIC_82-out	8249	Vocational schools, nec	County data: Educational services output
SIC_82-out	8299	Schools & educational services, nec	County data: Educational services output
SIC_832&9out	8322	Individual and family services	County data: Individual & misc. social services output
SIC_833-out	8331	Job training and related services	County data: Job training and related services output
SIC_835-out	8351	Child day care services	County data: Child day care services output
SIC_836-out	8361	Residential care	County data: Residential care output
SIC_832&9out	8399	Social Services, nec	County data: Individual & misc. social services output
SIC_84-out	8412	Museums and art galleries	County data: Museums, botanical, zoological gardens output
SIC_84-out	8422	Botanical and Zoological gardens	County data: Museums, botanical, zoological gardens output
SIC_86-out	8611	Business associations	County data: Membership organizations output
SIC_86-out	8621	Professional organizations	County data: Membership organizations output
SIC_86-out	8631	Labor organizations	County data: Membership organizations output
SIC_86-out	8641	Civic and social associations	County data: Membership organizations output
SIC_86-out	8651	Political organizations	County data: Membership organizations output
SIC_86-out	8661	Religious organizations	County data: Membership organizations output
SIC_86-out	8699	Membership organizations, nec	County data: Membership organizations output
SIC_81+-out	8700	Engineering & Management Services	County data: Legal, eng. & mgmnt, and misc. serv output
SIC_871-out	8711	Engineering services	County data: Engineering & architectural services output
SIC_871-out	8712	Architectural services	County data: Engineering & architectural services output
SIC_871-out	8713	Surveying services	County data: Engineering & architectural services output
SIC_872+-out	8721	Accounting, auditing, & bookkeeping	County data: Accounting, auditing, & other services output
SIC_873-out	8731	Commercial physical research	County data: Research and testing services output
SIC_873-out	8732	Commercial nonphysical research	County data: Research and testing services output
SIC_873-out	8733	Noncommercial research organizations	County data: Research and testing services output
SIC_873-out	8734	Testing laboratories	County data: Research and testing services output
SIC_874-out	8741	Management services	County data: Management and public relations output
SIC_874-out	8742	Management consulting services	County data: Management and public relations output
SIC_874-out	8743	Public relations services	County data: Management and public relations output
SIC_874-out	8744	Facilities support services	County data: Management and public relations output
SIC_874-out	8748	Business consulting, nec	County data: Management and public relations output
SIC_88-out	8811	Private households	County data: Private household output
SIC_872+-out	8911	OUTDATED (1977) SIC	County data: Accounting, auditing, & other services output
SIC_872+-out	8922	OUTDATED (1977) SIC	County data: Accounting, auditing, & other services output
SIC_872+-out	8999	Services, nec	County data: Accounting, auditing, & other services output
SIC_91-97out	9111	Executive offices	County data: Government output
SIC_91-97out	9121	Legislative bodies	County data: Government output
SIC_91-97out	9131	Executive and legislative combined	County data: Government output
SIC_91-97out	9199	General government, nec	County data: Government output
SIC_91-97out	9211	Courts	County data: Government output

Table II-2 (continued)

GROWTH PARAMETER	SIC CODE	SIC CODE DESCRIPTION	PARAMETER COMMENT
SIC_91-97out	9221	Police protection	County data: Government output
SIC_91-97out	9222	Legal counsel and prosecution	County data: Government output
SIC_91-97out	9223	Correctional institutions	County data: Government output
SIC_91-97out	9224	Fire protection	County data: Government output
SIC_91-97out	9229	Public order and safety, nec	County data: Government output
SIC_91-97out	9311	Finance, taxation, & monetary policy	County data: Government output
SIC_91-97out	9411	Admin. of educational programs	County data: Government output
SIC_91-97out	9431	Admin. of public health programs	County data: Government output
SIC_91-97out	9441	Admin. of social & manpower programs	County data: Government output
FED_MIL-out	9451	Administration of veterans' affairs	County data: Federal military output
SIC_91-97out	9511	Air, water, & solid waste management	County data: Government output
SIC_91-97out	9512	Land, mineral, wildlife conservation	County data: Government output
SIC_91-97out	9531	Housing programs	County data: Government output
SIC_91-97out	9532	Urban and community development	County data: Government output
SIC_91-97out	9611	Admin. of general economic programs	County data: Government output
SIC_91-97out	9621	Regulation, admin. of transportation	County data: Government output
SIC_91-97out	9631	Regulation, admin. of utilities	County data: Government output
SIC_91-97out	9641	Regulation of agricultural marketing	County data: Government output
SIC_91-97out	9651	Regulation misc. commercial sectors	County data: Government output
FED_CIVL-out	9661	Space research and technology	County data: Federal civilian output
FED_MIL-out	9711	National security	County data: Federal military output
FED_CIVL-out	9721	International affairs	County data: Federal civilian output
TOTAL-out	9999	Nonclassifiable establishments	County data: Total output (bil 92\$)

**Table II-3. Unique List of Fuel Projections Categories
Incorporated Into REMI/AEO Growth Parameters**

ADJUSTMENT CODE	DESCRIPTION
C1	adjusted by AEO Commercial Coal
C2	adjusted by AEO Commercial Distillate
C3	adjusted by AEO Commercial LPG
C4	adjusted by AEO Commercial Motor Gasoline
C5	adjusted by AEO Commercial Natural Gas
C6	adjusted by AEO Commercial Renewables
C7	adjusted by AEO Commercial Residual
C8	adjusted by AEO Commercial Total Energy
I1	adjusted by AEO Chemicals Natural Gas
I2	adjusted by AEO Chemicals Total Energy
I3	adjusted by AEO Cement Distillate
I4	adjusted by AEO Cement Natural Gas
I5	adjusted by AEO Cement Residual
I6	adjusted by AEO Cement Steam Coal
I7	adjusted by AEO Food Natural Gas
I8	adjusted by AEO Food Residual
I9	adjusted by AEO Iron&Steel Blast Furnace and Coke Oven Gas
I10	adjusted by AEO Iron&Steel Natural Gas
I11	adjusted by AEO Iron&Steel Other Petroleum
I12	adjusted by AEO Durable Metals Natural Gas
I13	adjusted by AEO Mining Distillate
I14	adjusted by AEO Mining Natural Gas
I15	adjusted by AEO Mining Other Petroleum
I16	adjusted by AEO Mining Residual
I17	adjusted by AEO Mining Petroleum
I18	adjusted by AEO Mining Total Energy
I19	adjusted by AEO Other Manufacturing Distillate
I20	adjusted by AEO Other Manufacturing Natural Gas
I21	adjusted by AEO Other Manufacturing Residual
I22	adjusted by AEO Other Manufacturing Total Energy
I23	adjusted by AEO Paper Natural Gas
I24	adjusted by AEO Refining Distillate
I25	adjusted by AEO Refining LPG
I26	adjusted by AEO Refining Natural Gas
I27	adjusted by AEO Refining Residual
I28	adjusted by AEO Refining Still Gas
I29	adjusted by AEO Refining Total Energy
I30	adjusted by AEO Refining Total Petroleum
I31	adjusted by AEO Total Industrial Distillate
I32	adjusted by AEO Total Industrial LPG
I33	adjusted by AEO Total Industrial Metallurgical Coal
I34	adjusted by AEO Total Industrial Motor Gasoline
I35	adjusted by AEO Total Industrial Natural Gas
I36	adjusted by AEO Total Industrial Other Petroleum